$5.00

United States and Canada

The #1 Global Manufacturer of Home Resort Products™

2005 Owner's Manual

All Portable Spas

Manufactured after December 1, 2004 • United States and Canada

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LTR20051000

Due to our continuous improvement programs, all models, operation, and/or specifications are subject to change without prior notice.

www.calspas.com

LTR20051000, Rev D
7/15/2005

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Read This First!

Important Safety Instructions

When installing and using this electrical equipment, always follow basic safety precautions. Following these instructions will help make your first spa session a pleasurable one.

READ AND FOLLOW ALL INSTRUCTIONS

WARNING: To reduce the risk of injury, do not allow children to use the spa unless they are supervised at all times.

All 110V spas require a DEDICATED 20 AMP GFCI SERVICE. Do not use extension cords.

NOTE: This may require a licensed electrician to upgrade your standard receptacle and/or circuit breaker.

All 220V spas require a DEDICATED 50 AMP GFCI SERVICE WITH FOUR #6 AWG COPPER WIRES.

DANGER -- RISK OF ACCIDENTAL DROWNING: Use extreme caution to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the spa unless they are closely supervised at all times. (Keep the spa cover on and locked when not in use. See instructions enclosed with your cover.)

DANGER -- RISK OF INJURY: The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings, or the pump, be sure the flow rates are compatible.

DANGER -- RISK OF INJURY: Never operate the spa if the suction fitting or filter baskets are broken or missing.

DANGER -- RISK OF INJURY: Never replace a suction fitting with one that is rated less than the flow rate marked on the original suction fitting.

DANGER -- RISK OF ELECTRIC SHOCK: Install the spa at least 5 feet (1.5 meters) from all metal surfaces. As an alternative. a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently bonded by a minimum #8 AWG solid copper conductor to the outside of the spa's control box.

DANGER - RISK OF ELECTRIC SHOCK: Do not permit any electrical appliances, such as lights, telephones, radios, televisions, and etc., within 5 feet (1.5 meters) of the spa. Never attempt to operate any electrical device from inside the spa.

WARNING -- RISK OF INJURY

- Before entering a spa, measure the water temperature with an accurate thermometer, since the tolerance of water temperature-regulating devices varies.
- The spa water should never exceed 104˚F (40˚C). Water temperatures between 100˚F (38˚C) and 104˚F (40˚C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
- Since excessive water temperatures have a high potential for causing fetal damage during pregnancy during early months of pregnancy, women who are pregnant, or who think they are pregnant, should always check with their physician prior to spa usage.
- The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness, with the possibility of drowning.

- Persons suffering from obesity, a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using the spa.
- Persons using medications should consult a physician before using the spa since some medications may induce drowsiness while others may affect heart rate, blood pressure and circulation.

Hyperthermia Danger

Prolonged exposure to hot air or water can induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level 3˚F to 6˚F above the normal body temperature of 98.6˚F (or 2˚C to 4˚C above 37˚C). While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above 103˚F (39.5˚C). Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects of excessive hyperthermia may include:

- Failure to perceive heat
- Failure to recognize the need to exit spa or hot tub
- Unawareness of impending hazard
- Fetal damage to pregnant women
- Physical inability to exit the spa
- Unconsciousness

WARNING! The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

Basic Spa Information

The following operating and maintenance instructions are very important and must be followed carefully. With the proper care and maintenance, your Cal Spa will provide you with years of satisfaction and performance.

Do not be afraid to push buttons or turn knobs to learn about your new Cal Spa, as it is built with quality materials and excellent craftsmanship.

Your new Cal Spa has been engineered with a high-powered water pump that pushes water through various therapy jets, which will relax even the tightest muscles. In addition to the water pressure, you can add air into the spa water with air venturi handles located seat-side that increase the intensity of your massage.

The filtering of this spa is very important. This alone will cut down on cleaning time and use of excess chemicals. We have pre-programmed two filter cycles of two hours for every twelve hours. This can be increased to six hours every twelve hours through the topside control panel.

Important! Keep the spa covered when not in use!

- Covered spas will use less electricity in maintaining your set temperature.
- Covering your spa will protect your spa's finish from the sun's ultraviolet rays.
- You are required to keep the spa covered to maintain warranty coverage.
- Covering your spa helps prevent children from drowning in the spa.

Your new Cal Spa comes equipped with an electric heater. Following the directions listed below will ensure the most efficient operation:

- Set the spa's operating temperature within 5˚F of the desired usage temperature and raise the temperature one or two hours prior to usage.

NOTE: This method is only for spa usage under two hours a week.

- If the spa usage exceeds two hours a week, the set temperature should remain at the desired usage temperature.
- The air venturi handles should be used sparingly. When open, water temperature drops quite rapidly and can also dissipate chemicals.

Allowing the water temperature to lower more than 10˚F below the desired usage temperature and reheating it prior to usage will cause the heater to operate longer than it normally would maintaining the desired temperature. Doing this will increase your operating cost and makes your heater work more than necessary.

The filter needs to be cleaned on a regular basis. This is very simple and only takes a few minutes. The result is increased water clarity and equipment longevity.

Water level is very important to the operation of your spa. If the water level is too low or too high, your spa will not operate properly. The water level should be to the middle of the skimmer area when the spa is not being used.

We recommend that your spa water be changed every 4 to 6 months. You may find the need to change your spa water more frequently with heavy use. When empty, your spa should be cleaned with a non-abrasive cleaner, such as Cal Spas™ All Surface Cleaner, and then rinsed thoroughly.

See the section “Cleaning and Maintaining Your Spa” for instructions on draining your spa.

When filling your spa, always fill through the skimmer filter canister. Use only regular tap water.

WARNING: DO NOT USE SOFT WATER.

Quick Reference Information

5000 Equipment Filtration Settings and Recommendations

F2 = Two hours of filtration every 12 hours. This setting is for occasional spa usage only.

F4 = Four hours of filtration every 12 hours. This setting is for light spa usage. (Up to four hours of usage a week)

F6 = Six hours of filtration every 12 hours. This setting is for normal spa usage. (Up to six hours of usage a week)

F8 = Eight hours of filtration every 12 hours. This setting is for heavy spa usage. (Up to eight hours of usage a week)

FC = 24 hour filtration. This setting is for spa usage that exceeds twelve hours a week.

NOTE: F8 and FC filtration settings are only to be used with spas equipped with the Spa Cal™ filtration pump. These settings can cause conventional two speed pump systems to raise the water temperature well above the set temperature.

Setting the Filtration Cycles

2300 Equipment:

Press either UP or DOWN followed by either the JETS 1 or JETS 2. Each additional press of the UP or DOWN button will increase or decrease the filtration time.

5000 Equipment:

Press the TEMP button followed by the JETS button. Each additional press of the TEMP button will increase the filtration time.

9800 Equipment:

Press TIME followed by MODE /PROG and use the UP and DOWN buttons to set time of day and filter cycles.

General Chemical Maintenance Information (500-Gallon Spa)

Start-up:

1. Add 3 oz. of “Iron Out” or 16 oz. of “Metal Protector”.
2. Add 2 oz. of sodium bromide.
3. Add 2 oz. of “Oxidizer Shock”.
4. Add 3 to 4 Bromine tablets to a mostly closed floater.

NOTE: Do not place bromine tablets in the skimmer basket.

Weekly

1. Bromine: Acceptable range without a Cal Zone™ Ozonator is between 3 to 5
   a. Bromine: Acceptable range with a Cal Zone™ Ozonator is between 1 to 3.
   b. Chlorine: Acceptable range without a Cal Zone™ Ozonator is between 3 to 5.
   c. Chlorine: Acceptable range with a Cal Zone™ Ozonator is between 1 to 3.

d. pH acceptable range is between 7.2 to 7.8 ppm.

e. Alkalinity: Acceptable Range is between 80 to 120 ppm.

2. Add one or two bromine tablets. Usage varies with water temperature and bather loads.
3. Add 2 oz. of "Oxidizer Shock". Always follow directions on the container. (Do not use chlorinating shock.)
4. Add 2 oz. "Stain & Scale Prevention" or 3 oz. of "Iron Out" as directed on the container.
5. Add "pH Up", if needed. Always follow directions on the container.
6. Add "Alkalinity Up", if needed. Always follow directions on the container.
7. Add "pH Down", if needed. Always follow directions on the container.

Bi-Weekly

In addition to the weekly instructions, perform the following:

1. Clean the filter cartridge.
2. Visually inspect the equipment area for the following:

a. Equipment area is clean. (Cabinet vents are unobstructed)

b. Ozonator operation. (Ozonator only operates during filtration cycles)

c. Pumps, plumbing, air blowers, unions, gate valves, and ozone (check valves for leakage).

NOTE: Component failure as a result of leaks not promptly reported will void the warranty.

Important Chemical Notice

Before using any chemicals, consult with your physician for possible allergic reactions to the corresponding chemicals. Also, consult with your local Cal Spas™ Dealer for a chemical program that is best suited for your local water condition, climate and usage habits.

Preparing for Your New Portable Spa

Congratulations! You have purchased a Cal Spa. With a little preparation and care, your spa will give you many years of enjoyment. This section has been designed to provide you with all the information you'll need to ensure a safe, speedy and trouble-free spa delivery and set-up.

Most cities and counties require permits for exterior construction and electrical circuits. In addition, some communities have codes requiring residential barriers such as fencing and/or self-closing gates on property to prevent unsupervised access to the property by children under the age of 5. Your dealer can provide information on which permits may be required and how to obtain them prior to the delivery of your Cal Spa.

Planning the Best Location For Your Spa

Here are some of the things that you will need to consider when determining where to place your new spa.

Safety First

- Do not place your spa within 10' (3m) of overhead power lines.
- Make sure the spa is positioned so that access to the equipment compartment and all side panels will not be blocked. Be certain that your installation will meet all city and local safety codes and requirements.

Consider How You Will Use Your Spa

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If you will use it for relaxation and therapy, you'll probably want to create a specific mood around it.

Plan for Your Environment

If you live in a region where it snows in the winter or rains frequently, place the spa near a house entry. By doing this, you will have a place to change clothes and not be uncomfortable.

Consider Your Privacy

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

Provide A View With Your Spa

Think about the direction you will be facing when sitting in your spa. Do you have a special landscaped area in your yard that you find enjoyable? Perhaps there is an area that catches a soothing breeze during the day or a lovely sunset in the evening. Consider these things when you plan your location.

Keep Your Spa Clean

Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bather's can clean their feet before entering your spa. You may also consider keeping a small water-filled basin nearby for bathers to rinse their feet before enter your spa.

In planning your spa's location, consider a location where the path to and from the house can be kept clean and free of debris.

Allow For Service Access

Many people choose to install a decorative structure around their spa. If you are installing your spa with any type of structure on the outside, such as a gazebo, remember to allow access for service. It is always best to design special installations so that the spa can still be moved, or lifted off the ground.

Preparing a Good Foundation for Your Portable Spa

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could damage your spa shell or finish.

Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa. We strongly recommended that you have a qualified, licensed contractor prepare the foundation for your spa.

Place the spa on an elevated foundation (preferably a 3" concrete slab). If you are installing the spa indoors, pay close attention to the flooring beneath it. Choose flooring that won't be spoiled or stained.

If you are installing your spa on an elevated wood deck or other structure, consult a structural engineer or a contractor to ensure the structure will support the weight of **150 pounds per square foot**.

Your Cal Spas™ retailer can help you with your foundation and more. Your retailer has a wealth of information and experience about how to get the most out of your spa and can provide you with a full line of accessories that are designed to compliment your spa and increase your enjoyment.

Electrical Set-up Before Delivery of Your Spa

When installed in the United States, the electrical wiring of this spa must meet the requirements of National Electric Code, ANSI/NFPA 70-1999 and any applicable state or local codes. The electrical circuit must be installed by an electrical contractor and approved by a local building / electrical inspector.

All 240V spas must be permanently connected (hard wired) to the power supply. 120V spas may use a G.F.C.I. cord, plugged into a dedicated grounded outlet. Supplying power to a spa which is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer's warranty.

The power supplied to the spa must be on a dedicated circuit with no other appliances or lights sharing the power.

To determine the current, voltage, and wire size required for the spa configuration to be connected, refer to the following:

- Wire size must comply with NEC and / or local codes.
- Wire size is determined by length of run from breaker box to spa and maximum current draw.
- We recommend copper wire with THHN insulation.
- All wiring must be copper to ensure adequate connections. Do not use aluminum wire.
- When using wire larger than #6 (10mm2), add a junction box near the spa and reduce to short lengths of #4 (10mm2) wire between the junction box and the spa.

The electrical supply for the spa must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with NEC Section 422-20. The disconnection point must be readily accessible to the spa's occupant. Check with local municipalities for additional code requirements.

The electrical circuit for the spa must include a suitable GFCI as required by NEC Section 680-42.

110 Volt Electrical Installation Guidelines

Always follow applicable local, state and federal codes and guidelines.

- Use only a dedicated electrical line with a 20-amp breaker.
- Do not use an extension cord.
- Always use a weatherproof-covered receptacle.
- Never have your spa within 10’ of the receptacle.
- Do not bury the power cord.
- If your cord becomes damaged, replace it before next usage.

All 110V spas must have a GFCI (Figure 1). This can be either a 15-amp GFCI receptacle or a GFCI cord and plug kit (CKIT110 - P/N ELE09700086).

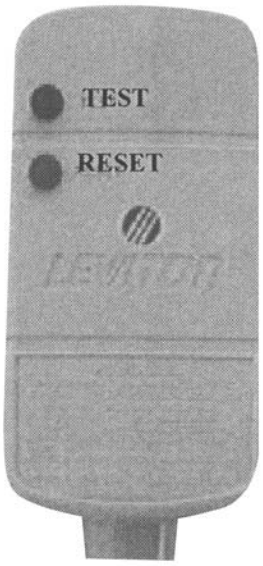


Figure 1. 110V / 15 Amp GFCI Plug

Test the GFCI plug prior to every use. To test the GFCI plug version, please follow these easy instructions. (Spa should already be plugged in and operational.)

1. Press the TEST button on the GFCI. The GFCI will trip and the spa will stop operating.
2. Press the TEST button on the GFCI. The GFCI will reset and the spa will turn back on.

The spa is now safe to use.

If the GFCI turns off (“trips”) while the spa is in use, press the RESET button. If the GFCI does not reset, unplug the spa and call your local Cal Spas dealer for service. DO NOT USE THE SPA!

220 Volt Electrical Installation

All 220V spas are required to have a dedicated 50-Amp GFCI breaker and should only be wired by a licensed electrician. To ensure proper wiring of your GFCI, follow these diagrams (Figure 2 and Figure 3).

- Always follow applicable local, state, and federal codes and guidelines.
- Your new 220V Cal Spa requires a dedicated, 50-Amp GFCI Service with four #6 AWG copper wires. This will include a black and a red wire for your incoming power, a white wire used for your neutral, and a green wire for your ground.

You can use #6 AWG wire for a distance of up to 100'. Wire run over 100' must increase to #4 gauge. **This is the only acceptable electrical wiring procedure.** Spas wired in any other way will void your warranty and may result in serious injury.

Do not install a GFCI breaker in the main electrical panel. The further away a GFCI is installed from the spa, the higher the risk of false tripping or resetting of the GFCI breaker. We only recommend the use of the Square D GFCI breaker.

Before each use of your spa, you should check the GFCI. During this test, the spa should be operational.

3. Press the test button on the GFCI. The GFCI will trip and the spa will shut off.
4. Wait 30 seconds and reset the GFCI breaker by turning the breaker off then back on. Your spa will be operational in about five seconds.

Your spa is now safe to use.

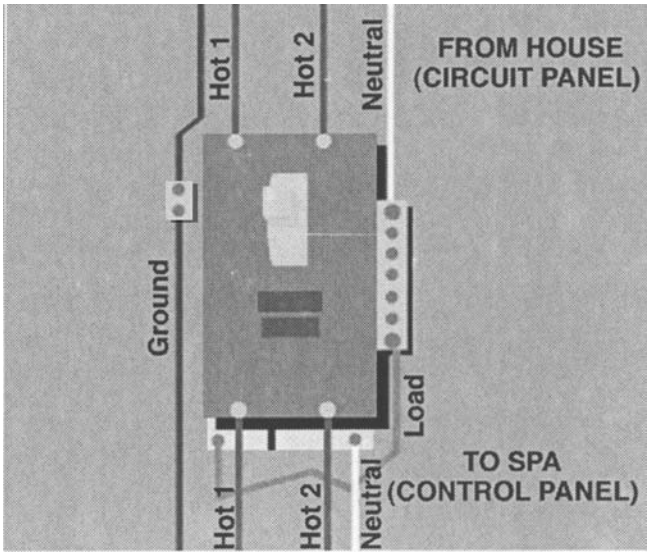


Figure 2. GFCI Hook-Up

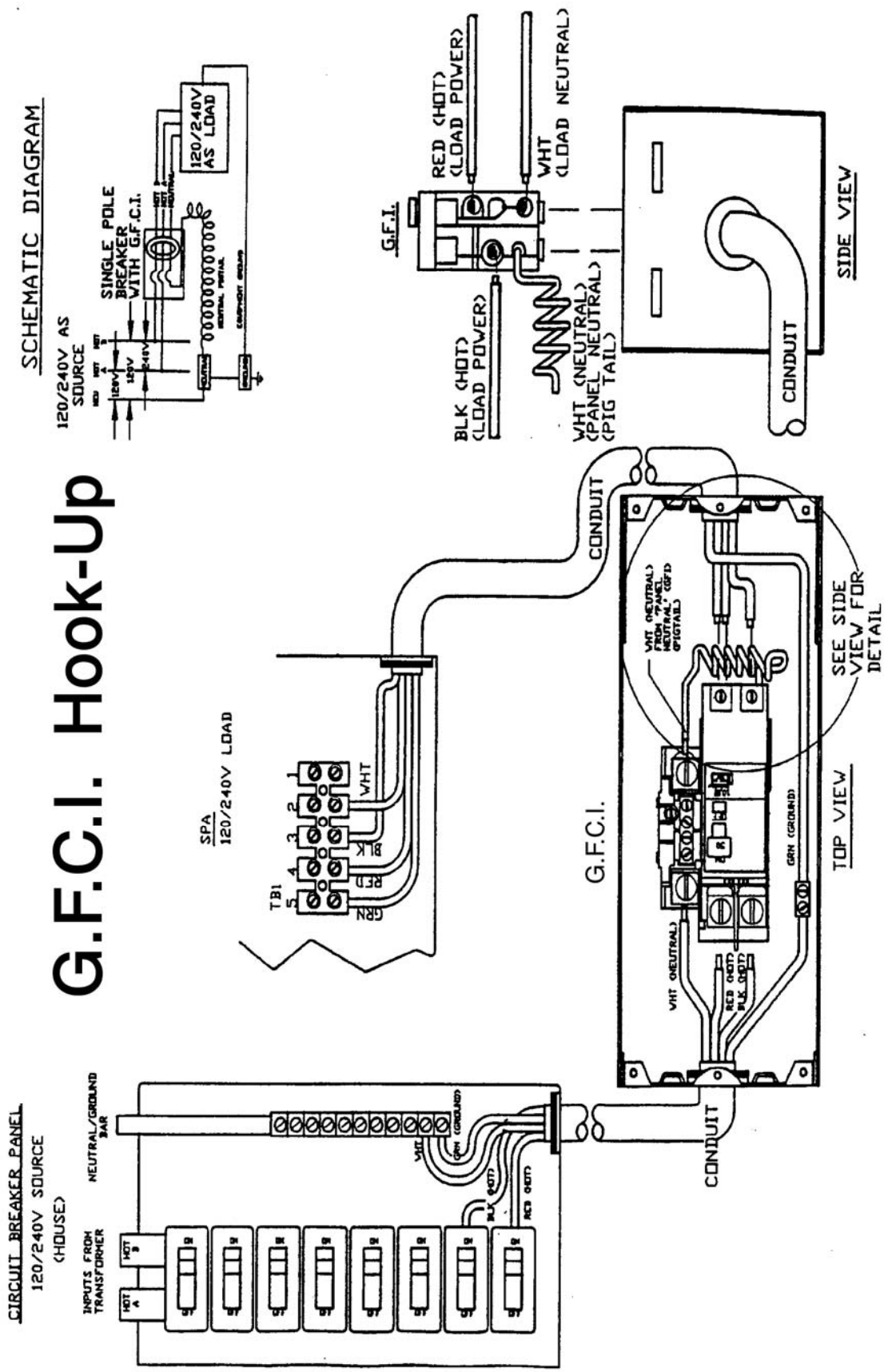


Figure 3. GFCI Hook-Up

Filling and Powering Up Your Portable Spa

Never fill your spa with soft water. Soft water makes it impossible to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty.

1. Once the spa has been placed on an approved surface and has been correctly wired by a licensed electrician, inspect all plumbing connections in the equipment area of your spa. Ensure that these connections are secure and that they didn't loosen during shipment.
2. If equipped, open all gate valves, or slice valves, in the equipment area. Before operating the spa, these valves must be in the up or "open" position.
3. Remove the filter basket and cartridge from skimmer / filter canister.
4. Place a garden hose in the skimmer / filter canister and continue filling your spa with regular tap water up to the water level (halfway up the skimmer area).
5. (For owners of the automatic bromine generator) Make sure the dial on the face of the bromine generator unit is turned to the OFF position.
6. Open the air relief valve (located next to the two filters, if equipped) after the air bubbles stop coming out of it. Close the valve hand-tight.
7. If the air lock persists, open the pump unions on the suction side of the pump.
8. Once the water is at the correct level, turn on the power at the GFCI breaker. (Ensure that the 110V spas are connected to the proper electrical outlet.)

   After you turn on the power, the spa will perform a diagnostic check for 30 seconds. When the diagnostic is complete, the spa will automatically operate at filter speed and continue heating until the spa water temperature reaches the default temperature of 100˚F.
9. Re-install the filter and the filter basket into the skimmer / filter canister.

The spa is now ready for use.

Notes: Never run the spa with the gate valves closed or without water circulating for long periods of time.

Be careful not to over-tighten the plumbing fittings.

Operating Your Spa

1500 Electronic Control Operation

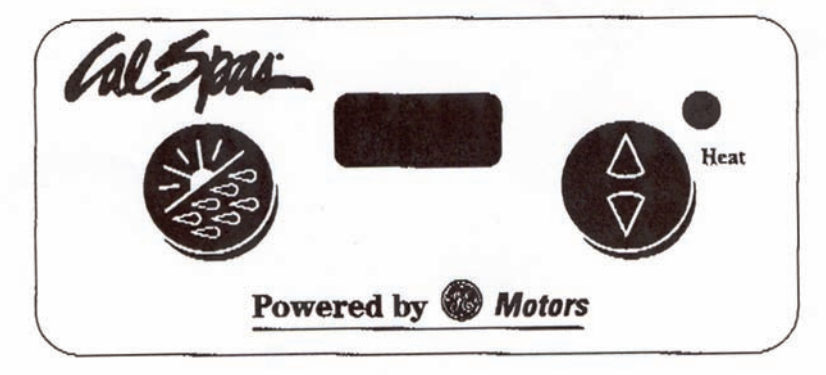


Figure 4. 1500 Electronic control panel

Temperature Adjustment

Range 80°F to 104°F

The 1500 electronic control panel (Figure 4) displays the actual water temperature in Fahrenheit.

To set the water temperature:

- Press the TEMPERATURE button. The temperature setting will flash.
- While the display is flashing, each time you press the TEMPERATURE button the set temperature will increase one degree.
- Allow the display to revert back to the actual water temperature.
- Press the TEMPERATURE button again.
- While the display is flashing, each time you press the TEMPERATURE button the the set temperature will decrease by one degree.

Standard Heating Mode

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, the heating system will automatically activate. Whenever the water temperature drops more than one degree below the set temperature, the heating system will automatically activate and heat the spa water to the set temperature.

Jet / Light Controls (One Pump Systems)

Press the JETS button:

- Once to activate the spa light
- Once to activate the pump at low speed
- Twice to activate the spa light and run the pump at high speed

- Three times to run the pump at high speed with the spa light off
- Four times to turn the pump off

Jet / Light Controls (Two Pump Systems)

Press the JETS button:

- Once to run pump 1 at low speed
- Twice to run pump 1 at high speed
- Three times to run pumps 1 and 2 at high speed
- Four times to activate the spa light while pump 1 and 2 are on high speed
- Five times to run pump 1 at low speed and turn off pump 2. The spa light remains on.
- Six times to turn off the the spa light

Setting Filtration Cycles

Your spa will automatically filter itself twice a day. To set the filtration time, turn off the power to the spa at the GFCI Breaker and turn it back on at the time of day you would like the filtration cycles to start.

Example: If you power-up your spa at 12 Noon, your filtration cycles will start at 12 noon and 12 Midnight.

The first cycle will start after the spa is powered up. The second filtration cycle will begin twelve hours later. The filter cycle duration is preset for two hours. If spa usage is heavy, your Cal Spas™ authorized service technician can reconfigure your system to run two five hour filter cycles.

120V/240V Conversion

The 1500 series spa is a convertible system. The conversion from 120 Volts to 240 Volts must be performed by a licensed/bonded electrician. See 120 to 240 Volt conversion instructions, located on the inside cover of the control box.

Note: Only spas equipped with 1.5 BHP pumps may be converted to 120 Volts. Spas with 2.0 BHP pumps or larger can only be operated on 240 volt services.

120 Volt Heater Operation

When connected as a 120-Volt spa, the heater will only operate when the spa motor is on low speed or filtration speed. Once the high-speed motor is engaged, the heater will automatically disengage.

Automatic Time Outs

These features will automatically turn themselves off after periods of continuous use:

- Low-speed pump After 30 minutes
- High-speed pump After 30 minutes
- Spa light 4 hours

2300 Electronic Control Operation

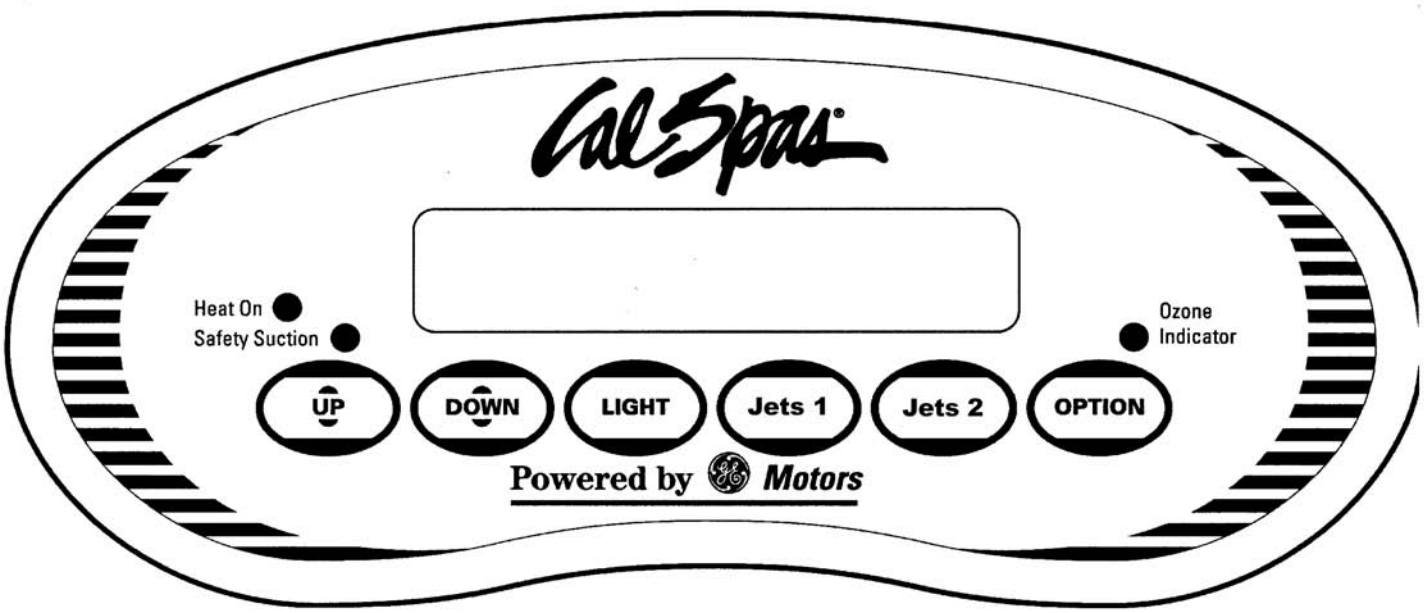


Figure 5. 2300 Electronic Control Panel

Initial Start up

When first powered up, the system will perform a self-diagnostic check, then it will automatically heat to and maintain 100˚F until you change the set temperature as described in the "Temperature Adjustment" section below.

Temperature Adjustment (Range 80°F to 104°F)

The 2300 electronic control panel (Figure 5) displays the actual water temperature in Fahrenheit.

To display the temperature that the spa is set to:

- Press either the UP or DOWN button. The temperature setting will flash.
- While the display is flashing, each time you press either the UP or DOWN button, the set temperature will change up or down one degree.

Standard and Economy Modes

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, it will automatically start in standard heating mode. This is displayed by STANDARD on the left side of the control panel. In this mode, the heating system will automatically activate whenever the water temperature drops more than one degree below the set temperature. In the economy heating mode, the heating system will only activate during filtration times. (Filtration times are set by using the "Setting Filtration Cycles" instructions on page 17.)

NOTE: There is no control panel message displayed while in the standard heating mode, only the actual water temperature is displayed.

To switch from the standard to the economy heating mode:

- Press either the UP or DOWN button followed by the LIGHT button.
- Press the same sequence to switch back to the standard heating mode.

Once in the economy heating mode, ECONOMY will display on the left side of the control panel.

Jets 1

Pump 1 Option or Spa Cal™ Filtration Option:

Press the JETS 1 button:

- Once to activate low speed or the Spa Cal™ filter pump
- Twice to activate high speed
- Three times to return to low speed

Jets 2

One Speed Pumps:

Press the JETS 2 button:

- Once to activate the high-speed pump
- Twice to turn off the high-speed pump

Two Speed Pump Option:

Press the JETS 2 button:

- Once to activate low speed
- Twice to activate high-speed
- Three times to turn off high-speed

Light

Press the LIGHT button to turn on the light. Press it once again to turn the light off. All optional lighting such as the control panel light and cabinet perimeter lighting is controlled by the LIGHT button and will turn on and off with the spa light.

Turbo

Press the OPTION button to turn on the turbo system. Press it once again to turn off the turbo system.

Setting the Temperature Lock

This feature allows you to lock a temperature into the system. When engaged, the set temperature will blink on and off when either the UP or DOWN button is pressed. However, you will not be able to change it until you unlock the set temperature:

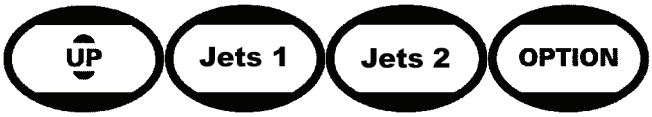
- Press either the UP or DOWN button.
- Press the OPTION button to unlock the set temperature.
- Select a temperature with the UP and DOWN buttons.
- Press the OPTION button to set and lock the temperature.

Automatic Time outs

These features will automatically turn themselves off during periods of continuous use:

- Low speed pump After 30 minutes
- High speed pumps After 15 minutes
- Optional circulation pump After 15 minutes
- Optional turbo After 15 minutes
- Spa light After 15 minutes

Setting Filtration Cycles



Your spa will automatically filter itself twice a day. To set filtration time, turn off the power to the spa at the time of day you would like to start filtration. The first cycle will start after the spa is powered up. The second filter cycle will begin twelve hours later. Filter cycle duration is preset for 2 hours (F2).

To change duration of filtration time, press either the UP or DOWN button, then press either the JETS 1 or JETS 2 pad. Press the OPTION button again to choose from 2 ,4, 6, 8, or 12 hours twice a day. After selecting the desired filtering duration, press the JETS button to exit the filter program. The circulating pump and ozone generator (optional) will run during filter cycles. (Note: The filter cycles settings of F8 and FC are only intended for use with the optional Spa Cal™ Filtration System.)

5000 and 5300 Electronic Control Operation

Figure 6. 5000 / 5300 Electronic Control

Initial Start up

When first powered up, the 5000 / 5300 system (Figure 6) performs a self-diagnostic check, then automatically heats to and maintains 100°F until you change the set temperature as described in the "Temperature Adjustment" section below.

Temperature Adjustment

Range 80°F to 104°F

The electronic control panel displays the actual water temperature in Fahrenheit.

To display the temperature that the spa is set to:

- Press the TEMP button. The set temperature setting will flash.
- While the display is flashing, each time you press the TEMP button, the set temperature will increase or decrease by one degree.

Letting the display revert back to the actual water temperature, then pressing the TEMP button again will allow you to change the direction of temperature adjustment.

Standard and Economy Modes

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, it will automatically start in the standard heating mode. In this mode, the heating system will automatically activate whenever the water temperature drops more than one degree below the set temperature. In the economy heating mode, the heating system will only activate during filtration times. (See "Setting Filtration Cycles on page 20.")

To switch from the standard heating mode to the economy heating mode, simply press the TEMP button followed by the LIGHT button. Press the same sequence to switch back to the standard heating mode. Once in the economy heating mode, Ec will display in the center of the control panel and flash alternately with the water temperature.

NOTE: There is no control panel message displayed while in the standard heating mode; only the actual water temperature is displayed.

Some spa models are equipped with the exclusive XL Heat Exchanger™, the most efficient spa heater available anywhere. This highly innovative device heats water faster and more efficiently with no chemical build-up. For your protection, it includes a High Limit Overheat Protection safety device that prevents spa equipment from overheating. The XL Heat Exchanger™ works automatically and requires no maintenance.

Jets

Press the JETS button:

One pump equipment:

- Once to activate the low speed pump
- Twice to activate the high speed pump
- Three times to turn off the high-speed

One pump equipment with circulation pump:

- Once to activate the circulation pump
- Twice to activate the circulation pump and the high-speed pump
- Three times to turn off both the circulation pump and the high-speed pump

Two pump equipment without circulation pump:

- Once to activate the low-speed pump
- Twice to activate the high speed on pump 1
- Three times to activate the high speed on pump 1 and high speed on pump 2
- Four times to turn off the high speed on pump 1. The high-speed on pump 2 will remain on.
- Five times to turn the high speed off on pump 2.

Two pump equipment with circulation pump:

- Once to activate the circulation pump
- Twice to activate the circulation pump and the high-speed pump 1
- Three times to activate the circulation pump, high-speed pump 1 and high-speed pump 2
- Four times to turn off the circulation pump and high speed pump 1. High-speed pump 2 will remain on.
- Five times to turn off the high-speed on pump 2

Three pump equipment (5300 system)

- Once to activate the low-speed pump
- Twice to activate the high speed on pump 1
- Three times to activate high speed on pumps 1, 2, and 3

- Four times to activate high speed on pumps 2 and 3
- Five times to turn off pumps 2 and 3

Light

Press the LIGHT button to turn on the spa light and again to turn the light off.

Turbo

Press the OPTION button to turn on the turbo system. Press it once again to turn off the turbo system.

Setting the Temperature Lock

This feature allows you to lock a temperature into the system. When engaged the set temperature will blink on and off when the TEMP button is pressed. However, you will not be able to change it until you unlock the set temperature:

- Press the TEMP button.
- Press the OPTION button to unlock the set temperature.
- Select a temperature with the TEMP button.
- Press the OPTION button to set and lock the temperature.

Automatic Time Outs

These features will automatically turn themselves off during periods of continuous use:

- Low speed pump After 30 minutes
- Optional circulation pump After 4 hours
- High-speed pump After 15 minutes
- Optional turbo system After 15 minutes
- Spa light After after 15 minute

Setting Filtration Cycles

Your spa will automatically filter itself twice a day. To set the filtration time, turn off the power to the spa at the GFCI breaker. Turn the GFCI breaker back on at the time of day you would like to start the filtration cycle. The first cycle will start after the spa is powered up. The second filtration cycle will begin twelve hours later. The filtration cycle duration is preset to 2 hours (F2). To change the duration of the filtration time, press the Temp pad, then press the Jets pad. Press the Temp button again to choose from 2,4,6,8, and 12 hours twice a day (FC = Filtration Continuous).

After selecting the desired filtration cycle duration, press the Jets pad to exit the filtration program. The circulating pump and ozone generator (optional) will run during filtration cycles.

NOTE: The filtration cycle settings of F8 and FC are only intended for use with the optional Spa Cal™ Filtration System.

Safety Suction System

Your new Cal Spa is equipped with a state-of-the-art Safety Suction System. This will automatically shutdown the spa in the event of a filtration or suction restriction, and display SF on the topside control panel. If this happens, check all suction fittings and filter cartridge(s) for obstructions. Then, reset the system by pressing any control panel button.

Diagnostic Messages

Message	Meaning
OH	Overheat protection (spa is shutdown) DO NOT ENTER THE WATER! If the spa has reached 112˚F (45˚C), remove the spa cover to cool the water. Overheating may occur if the filter cycle is set too long. At 110˚F (43˚C), the spa should reset itself. If the high-limit sensor detects 118˚F (48˚C) at the heater, the spa will shut down. When the heater cools down to 110˚F (43˚C), press any button to reset the spa. If the spa will not reset, then shut the power off to the spa and call your dealer of service organization.
FL	Flow Detection Switch. Pressure switch is not working correctly. Call your dealer or service organization.
Sn	Sensor (Spa is shut down). The high limit or water temperature sensor is not working correctly. Call your dealer or service organization.
Sf	Vacuum Switch (Spa is shut down). The display will show “SF” as soon as the vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.
LED	Heater LED will come on when the heater is on (and goes off when heater is off).
	Ozone LED will come on when in filtration cycles.
	Safety switch is a status LED noting power and system monitoring.

7000 Electronic Control Operation

When first powered up, the 7000 electronic system (Figure 7) will perform a self-diagnostic check and then it will automatically heat to and maintain a temperature of 100°F (37.5°C) until you change the set temperature as listed in the "Temperature Adjustment" section below.

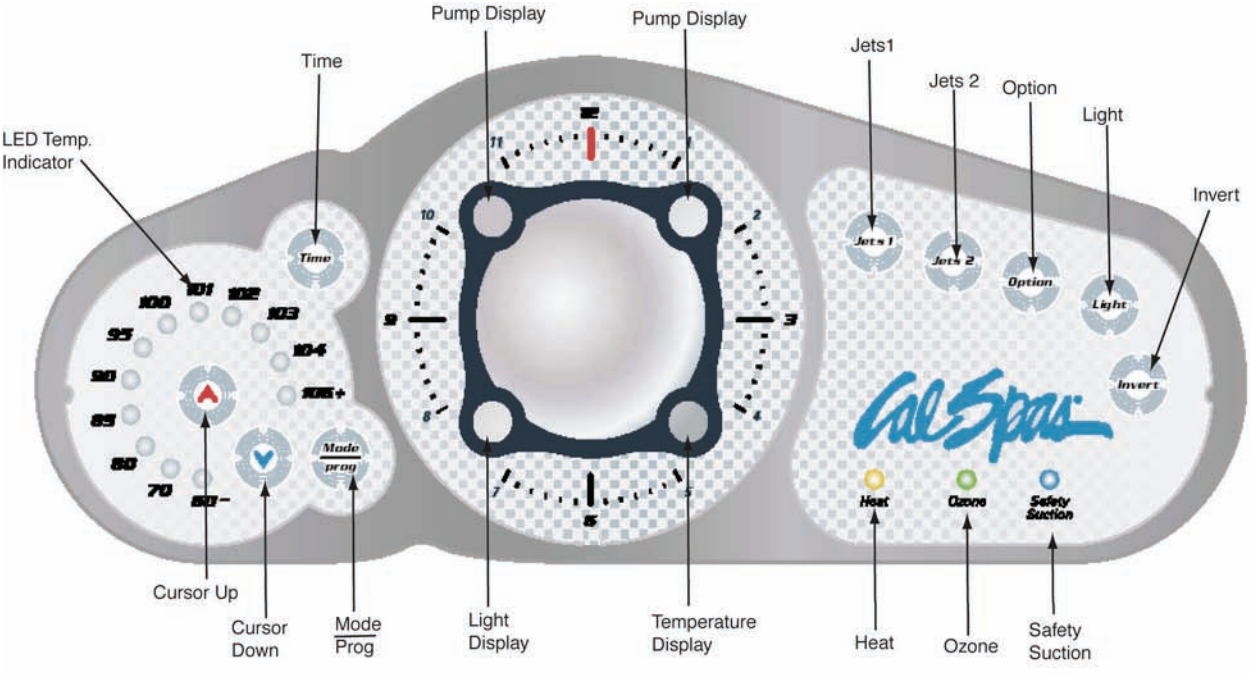


Figure 7. 7000 Electronic Control Panel

These instructions will describe features and options that your particular spa may not be equipped with.

Initial Start-up

When your spa is first powered up, it displays some configuration codes and then goes into priming mode (**Pr** will appear on the display panel). This mode lasts up to four minutes and then the spa begins to heat to its pre - programmed temperature of 100°F. You can exit the priming mode early by pressing UP or DOWN buttons.

Temperature Adjustment

80°F - 104.°F / 26.0°C - 40.0°C

The start-up temperature is set at 100°F / 37.5°C. The last measured temperature is constantly displayed on the control panel. Note that the last measured spa temperature is displayed. The displayed temperature will be updated when the pump has been running for at least two minutes.

Press the UP or DOWN buttons once to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the control panel will automatically display the last measured spa temperature.

Note: Some spa models are equipped with the exclusive XL Heat Exchanger™, the most efficient spa heater available anywhere. This highly innovative device heats water faster and more efficiently with no chemical build-up. For your protection, it includes a High Limit Overheat Protection safety device that prevents spa equipment from overheating. The XL Heat Exchanger™ works automatically and requires no maintenance.

Time

When time hasn't been programmed, the TIME icon flashes. To set the time, press the TIME button and then the MODE/PROG button. Use the UP and DOWN buttons to adjust time. See the next page for more detailed instructions.

Standard, Economy, Sleep, and Standby Modes

Mode/Prog: This button is used to switch between standard, economy, and sleep modes.

1. Press MODE/PROG to enter mode programming.
2. Press the DOWN button to cycle through to the desired mode.
3. Press MODE/PROG to confirm selection.

Standard Mode: This is programmed to maintain the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least two minutes. The "STAND" icon will display until the mode is changed.

Economy Mode: Economy mode heats the spa to the set temperature only during filter cycles. The "ECON" icon will display until the mode is changed. Pressing the JETS 1 button while in economy mode puts the spa in standard-in-economy mode, which operates the same as standard mode but reverts back to economy mode automatically after one hour. During this time, pressing the MODE/PROG button will revert to economy mode immediately.

Sleep Mode: Sleep mode heats the spa to within 20°F of the set temperature only during filter cycles. The "SLEEP" icon will display until the mode is changed.

Standby Mode: Pressing "Warm" or "Cool" then "Jets 2" will turn off all spa functions temporarily. This is helpful when changing a filter. Pressing any button resets the spa.

Jets 1

Press the JETS 1 button once to turn pump 1 on or off and to shift between low and high speeds if equipped. If left running, the low speed turns off after two hours and the high speed turns off after 15 minutes. On non-circulation systems, the low speed of pump 1 runs when the blower or any other pump is on. It may also activate for at least two minutes every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed, depending upon the mode. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

Jets 2

This is optional with the 7000 controller. Press the JETS 2 button once to turn pump 2 on or off and to shift between low and high speeds if it is a two-speed pump. If left running, the pump will turn off after 15 minutes.

Option

This button controls the optional blower. Press the OPTION button to turn the blower on and off. If left on, the equipment will automatically turn off after 15 minutes.

Light

Press the LIGHT button to turn the spa light on and off and to shift between dim and bright settings if your light is dimmable. On dim, the control panel will show the center circle plus one quarter of the light beams. Half of the light beams will show on medium brightness, and all of the light beams will show on bright.

Invert

Press the INVERT button to change the numbers in the display to read upside down. Another press returns the display to the right-side-up position. This enables you to read the display while you are in the spa.

Locking the Panel

To lock the panel:

- Press TIME, JETS 1, and the UP button within three seconds. When locked, the panel will display "LOCK". All buttons are frozen except the TIME button.

To unlock the panel:

- Press TIME, JETS 1, then the DOWN button within three seconds.

Setting the Temperature Lock

To activate the temperature lock:

- Press the UP or DOWN button, TIME, JETS 1, then the UP button within three seconds. The panel will display "TEMP LOCK" when the set temperature is locked.

To unlock the set temperature:

- Press the UP or DOWN button, TIME, JETS 1, then the DOWN button..

Circulation Pump

This is an optional feature. The circulation pump will come on when the system is checking temperature, during filter cycles, during freeze conditions, or when another pump is on.

Preset Filter Cycles

There are two filter cycles per day. The start and end times of each cycle are programmable. To program, set the time as instructed above, then press MODE/PROG to advance to the next setting (or to exit after the last setting). The default filter cycles are as follows:

- The first filter cycle is automatically activated at 8:00 AM and operates the pump until 10:00 AM. The "FILTER 1" indicator icon will light when filter 1 is running.
- The second filter cycle is automatically activated at 8:00 PM and operates the pump until 10:00 PM. The "FILTER 2" indicator icon will light when filter 2 is running.

The pump and the ozone generator will run during filtration. At the start of each filter cycle, the blower will run on highest speed for 30 seconds to clean out the air channels. The lowest speed of pump 2 and pump 3 will run for five minutes.

Time of day is not preserved on 7000 systems. However, filter cycles are. In the event of power loss or shut down, the time of day will need to be reset for filter cycles to run according to your desired programming.

Clean-up Cycle

When the pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for one hour.

Ozone

This is an optional feature. On most systems, the ozone generator (if installed) runs during filter cycles (except when pump 1 is operating at high speed on a non-circ system) and during clean-up cycles. On some systems, the ozone generator operates whenever the pump runs. If your system is configured with the optional ozone disable feature, the ozone generator will turn off for one hour any time a function button (JETS 1, JETS 2, OPTION etc.) is pressed.

Freeze Protection

If the temperature sensors detect a drop to 44°F within the heater, the pump automatically activates to provide freeze protection. The equipment stays on until four minutes after the sensors detect that the spa temperature has risen to 45°F or higher. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch and without a four minute delay in turnoff.

Periodic Reminder Messages

Press the "Mode" button to reset a displayed reminder.

Message	Frequency	Action Required
rPH	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rSA	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rCL	Every 30 days	Remove, clean, and reinstall filter per manufacturer's instructions.
rtg	Every 30 days	Test and reset GFCI per manufacturer's instructions. Drain and refill spa per manufacturer's instructions.
rdr	Every 90 days	Drain and refill spa per manufacturer's instructions.
rCO	Every 180 days	Clean and condition spa cover
rCH	Every 365 days	Install New Bio-Clean™ Filter

WARNING! SHOCK HAZARD!
There are no user serviceable parts. DO NOT attempt service of this control system. Contact your dealer or service center for service.

Diagnostic Messages

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings and time of day will be preserved for 30 days with a battery back-up; settings only are preserved until the next power-up on 9800 systems.

Message	Meaning	Action Required
OHH	"Overheat" - The spa has shut down. One of the sensors has detected 118°F at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
OHS	"Overheat" - The spa has shut down. One of the sensors has detected that the spa water is 110°F.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
ICE	"Ice" - Potential freeze condition detected.	No action required. The pumps and the blower will automatically activate regardless of spa status.
Sna	Spa is shut down. The sensor that is plugged into the Sensor "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Snb	Spa is shut down. The sensor that is plugged into the Sensor "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sns	Sensors are out of balance. If this is alternating with the temperature, it may just be a temporary condition. If the display shows only this message (periodically blinking), the spa is shut down.	If the problem persists, contact your dealer or service organization.
HFL	A substantial difference between the temperature sensors was detected. This could indicate a flow problem.	If the water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of the "HFL" message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for "HFL" message. Heating capacity of the spa will not reset automatically; you may press any button to reset.
dr	Inadequate water detected in heater.	Check water level in spa. Refill if necessary. If the water level is okay, make sure the pumps have been primed. Press any button to reset.
dry	Inadequate water detected in heater. (Displays on third occurrence of "dr" message.) Spa is shut down.	Follow action required for "dr" message. Spa will not automatically reset; you may press any button to reset.
Pr	When your spa is first actuated, it will go into Priming mode.	The Priming mode will last for up to four minutes and then the spa will begin to heat and maintain the water temperature in the Standard mode.
--For C	Temperature unknown	After the pump has been running for two minutes, the temperature will be displayed.

Message	Meaning	Action Required
------	Temperature not current in Economy or Sleep mode.	In Economy or Sleep mode, the pump may be off for hours outside a filter. If you wish to see the current spa temperature, either switch to Standard mode or turn Jets1 on for at least two minutes.
BUF	Internal problem detected.	Repair required. Contact your dealer or service organization.
Stby	Standby Mode has been activated by pressing a button combination on the user panel.	Press any button to leave Standby Mode and return to normal operation.
SF	Safety Suction.	Spa is shut down. The display will show "SF" when a vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.

9800 Electronic Control Operation

When first powered up, the 9800 electronic system (Figure 8) will perform a self-diagnostic check and then it will automatically heat to and maintain a temperature of 100°F (37.5°C) until you change the set temperature as listed in the "Temperature Adjustment" section below.

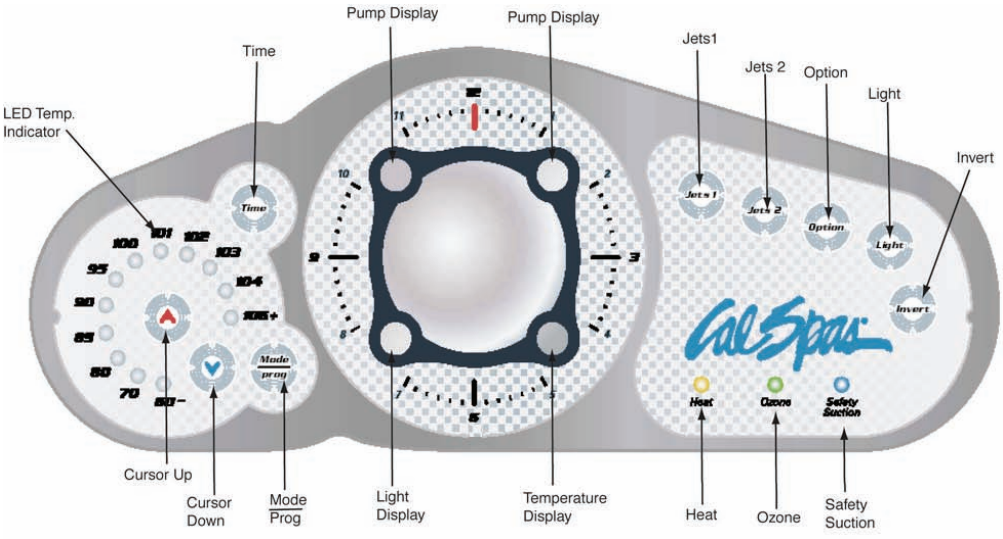


Figure 8. 9800 Electronic Control Panel

These instructions will describe features and options that your particular spa may not be equipped with.

Initial Start-up

When your spa is first powered up, it displays some configuration codes and then goes into priming mode (Pr will appear on the display panel). This mode lasts up to four minutes and then the spa begins to heat to its pre - programmed temperature of 100°F. You can exit the priming mode early by pressing UP or DOWN buttons.

Temperature Adjustment

80°F - 104.°F / 26.0°C - 40.0°C

The start-up temperature is set at 100°F / 37.5°C. The last measured temperature is constantly displayed on the control panel. Note that the last measured spa temperature is displayed. The displayed temperature will be updated when the pump has been running for at least two minutes.

Press the UP or DOWN buttons once to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the control panel will automatically display the last measured spa temperature.

Note: Some spa models are equipped with the exclusive XL Heat Exchanger™, the most efficient spa heater available anywhere. This highly innovative device heats water faster and more efficiently with no chemical build-up. For your protection, it includes a High Limit Overheat Protection safety device that prevents spa equipment from overheating. The XL Heat Exchanger™ works automatically and requires no maintenance.

Time

When time hasn't been programmed, the TIME icon flashes. To set the time, press the TIME button and then the MODE/PROG button. Use the UP and DOWN buttons to adjust time. See the next page for more detailed instructions.

Standard, Economy, Sleep, and Standby Modes

Mode/Prog: This button is used to switch between standard, economy, and sleep modes.

1. Press MODE/PROG to enter mode programming.
2. Press the DOWN button to cycle through to the desired mode.
3. Press MODE/PROG to confirm selection.

Standard Mode: This is programmed to maintain the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least two minutes. The "STAND" icon will display until the mode is changed.

Economy Mode: Economy mode heats the spa to the set temperature only during filter cycles. The "ECON" icon will display until the mode is changed. Pressing the JETS 1 button while in economy mode puts the spa in standard-in-economy mode, which operates the same as standard mode but reverts back to economy mode automatically after one hour. During this time, pressing the MODE/PROG button will revert to economy mode immediately.

Sleep Mode: Sleep mode heats the spa to within 20°F of the set temperature only during filter cycles. The "SLEEP" icon will display until the mode is changed.

Standby Mode: Pressing "Warm" or "Cool" then "Jets 2" will turn off all spa functions temporarily. This is helpful when changing a filter. Pressing any button resets the spa.

Jets 1 and Jets 2

Press the JETS 1 button once to turn pump 1 on or off and to shift between low and high speeds if equipped. If left running, the low speed turns off after two hours and the high speed turns off after 15 minutes. On non-circulation systems, the low speed of pump 1 runs when the blower or any other pump is on. It may also activate for at least two minutes every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed, depending upon the mode. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

Option

This is an optional feature. Press the OPTION button to turn the optional equipment on and off. If left on, the equipment will automatically turn off after 15 minutes.

Light

Press the LIGHT button to turn the spa light on and off and to shift between dim and bright settings if your light is dimmable. On dim, the control panel will show the center circle plus one quarter of the light beams. Half of the light beams will show on medium brightness, and all of the light beams will show on bright.

Invert

Press the INVERT button to change the numbers in the display to read upside down. Another press returns the display to the right-side-up position. This enables you to read the display while you are in the spa.

Locking the Panel

To lock the panel:

- Press TIME, JETS 1, and the UP button within three seconds. When locked, the panel will display “LOCK”. All buttons are frozen except the TIME button.

To unlock the panel:

- Press TIME, JETS ,1 then the DOWN button within three seconds.

Setting the Temperature Lock

To activate the temperature lock:

- Press the UP or DOWN button, TIME, JETS 1, then the UP button within three seconds. The panel will display “TEMP LOCK” when the set temperature is locked.

To unlock the set temperature:

- Press the UP or DOWN button, TIME, JETS 1, then the DOWN button..

Circulation Pump

This is an optional feature. The circulation pump will come on when the system is checking temperature, during filter cycles, during freeze conditions, or when another pump is on.

Preset Filter Cycles

There are two filter cycles per day. The start and end times of each cycle are programmable. To program, set the time as instructed above, then press MODE/PROG to advance to the next setting (or to exit after the last setting). The default filter cycles are as follows:

- The first filter cycle is automatically activated at 8:00 AM and operates the pump until 10:00 AM. The “FILTER 1” indicator icon will light when filter 1 is running.
- The second filter cycle is automatically activated at 8:00 PM and operates the pump until 10:00 PM. The “FILTER 2” indicator icon will light when filter 2 is running.

The pump and the ozone generator will run during filtration. At the start of each filter cycle, the blower will run on highest speed for 30 seconds to clean out the air channels. The lowest speed of pump 2 and pump 3 will run for five minutes. In the event of power loss or shut down, the time of day will need to be reset for filter cycles to run according to your desired programming.

Clean-up Cycle

When the pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for one hour.

Ozone

This is an optional feature. On most systems, the ozone generator (if installed) runs during filter cycles (except when pump 1 is operating at high speed on a non-circ system) and during clean-up cycles. On some systems, the ozone generator operates whenever the pump runs. If your system is configured with the optional ozone disable feature, the ozone generator will turn off for one hour any time a function button (JETS 1, JETS 2, OPTION etc.) is pressed.

Freeze Protection

If the temperature sensors detect a drop to 44°F within the heater, the pump automatically activates to provide freeze protection. The equipment stays on until four minutes after the sensors detect that the spa temperature has risen to 45°F or higher. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch and without a four minute delay in turnoff.

Periodic Reminder Messages

Press the "Mode" button to reset a displayed reminder)

Message	Frequency	Action Require
rPH	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rSA	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rCL	Every 30 days	Remove, clean, and reinstall filter per manufacturer's instructions.
rtg	Every 30 days	Test and reset GFCI per manufacturer's instructions. Drain and refill spa per manufacturer's instructions.
rdr	Every 90 days	Drain and refill spa per manufacturer's instructions.
rCO	Every 180 days	Clean and condition spa cover
rCH	Every 365 days	Install New Bio-Clean™ Filter

WARNING! SHOCK HAZARD!
There are no user serviceable parts. DO NOT attempt service of this control system. Contact your dealer or service center for service.

Diagnostic Messages

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings and time of day will be preserved for 30 days with a battery back-up; settings only are preserved until the next power-up on 9800 systems.
OHH	"Overheat" - The spa has shut down. One of the sensors has detected 118°F at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
OHS	"Overheat" - The spa has shut down. One of the sensors has detected that the spa water is 110°F.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.

Message	Meaning	Action Required
ICE	"Ice" - Potential freeze condition detected.	No action required. The pumps and the blower will automatically activate regardless of spa status.
Sna	Spa is shut down. The sensor that is plugged into the Sensor "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Snb	Spa is shut down. The sensor that is plugged into the Sensor "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sns	Sensors are out of balance. If this is alternating with the temperature, it may just be a temporary condition. If the display shows only this message (periodically blinking), the spa is shut down.	If the problem persists, contact your dealer or service organization.
HFL	A substantial difference between the temperature sensors was detected. This could indicate a flow problem.	If the water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of the "HFL" message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for "HFL" message. Heating capacity of the spa will not reset automatically; you may press any button to reset.
dr	Inadequate water detected in heater.	Check water level in spa. Refill if necessary. If the water level is okay, make sure the pumps have been primed. Press any button to reset.
dry	Inadequate water detected in heater. (Displays on third occurrence of "dr" message.) Spa is shut down.	Follow action required for "dr" message. Spa will not automatically reset; you may press any button to reset.
Pr	When your spa is first actuated, it will go into Priming mode.	The Priming mode will last for up to four minutes and then the spa will begin to heat and maintain the water temperature in the Standard mode.
--For C	Temperature unknown	After the pump has been running for two minutes, the temperature will be displayed.
- - - - - -	Temperature not current in Economy or Sleep mode.	In Economy or Sleep mode, the pump may be off for hours outside a filter. If you wish to see the current spa temperature, either switch to Standard mode or turn Jets1 on for at least two minutes.
BUF	Internal problem detected.	Repair required. Contact your dealer or service organization.
Stby	Standby Mode has been activated by pressing a button combination on the user panel.	Press any button to leave Standby Mode and return to normal operation.
SF	Safety Suction.	Spa is shut down. The display will show "SF" when a vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.

Auxiliary Control Operation

The auxiliary control option is available with the 9800 control only. It is a small panel with four buttons that control certain spa functions, such as primary or additional jets, TV, or lights (Figure 9). It conveniently puts the control of several spa functions at your fingertips without having to get up.

Auxiliary Panel Configuration	Functions
Standard configuration	JETS 1, JETS 2, LIGHT, OPTION
Auxiliary panel in Infinity Series	JETS 3, JETS 4, JETS 5, OPTION
Spa models with automatic TV	JETS 1, JETS 2, TV, OPTION
Spa models with 3-pump system	JETS 1, JETS 2, JETS 3, OPTION

For operation, see the previous section, “9800 Electric Control Operation”.

Figure 9. Auxiliary control panel

Adjustable Jets

Almost all of the jets in your spa are adjustable. Rotating the face of an adjustable jet to the left (counter-clockwise) will decrease the amount of water flow through the jet. Rotating the face of an adjustable jet to the right (clockwise) will increase the amount of water flow through the jet. (See example shown in Figure 10 below.)

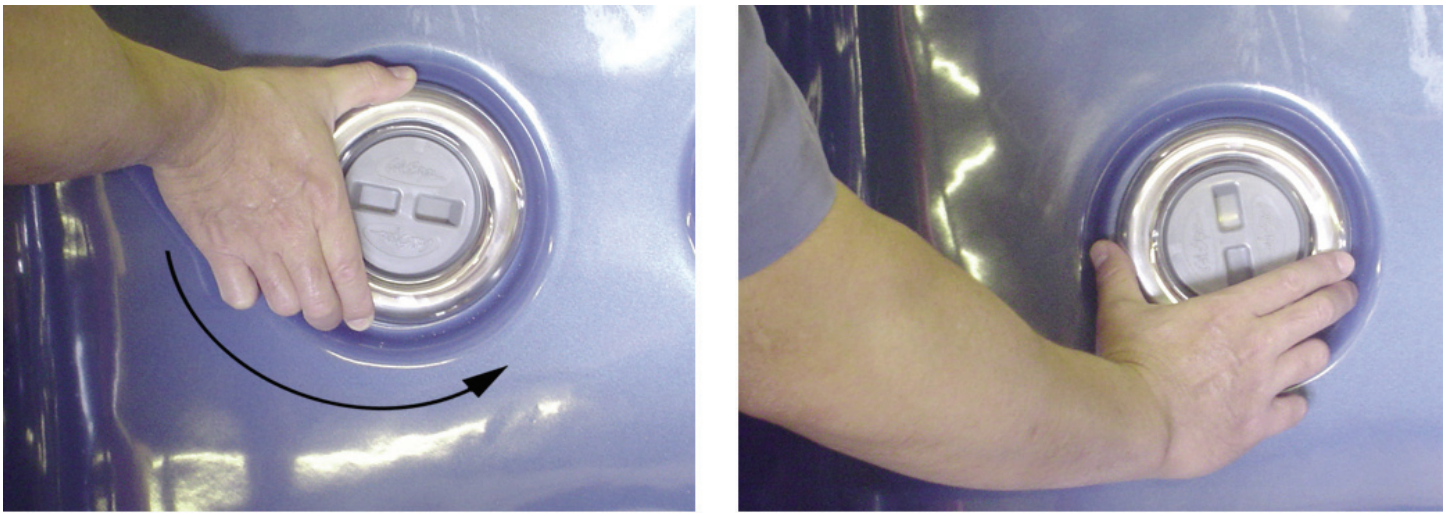


Figure 10. Rotating an adjustable jet

NOTE: Neck jets will be reversed when adjusting pressure.

Diverter Knobs

Diverter knobs are the larger knobs located around the top of your spa (Figure 11). They allow you to divert water through jets from one side of the spa to the other, or in most cases from floor jets to wall jets. This is accomplished by simply rotating the diverter knob to the left (counterclockwise), decreasing the amount of water flow through a section of jets. To increase the amount of water flow through the other section of jets, simply rotate the handle to the right (clockwise).

Figure 11. Diverter knob

Cal Spas™ Flow Diverter

The Cal Spas™ Flow Diverter system (Figure 12) uses one or more motorized valve(s) to vary the jet action between certain zones in the spa. These valve(s) are preset to stop at seven different positions. Those positions are represented by the LED lights on the Flow Diverter control panel.

As the valve(s) move, the LEDs will alternate between the current position and the desired position until the desired position is reached.

Upon power-up, all the LEDs will illuminate one at a time as the valve(s) move for approximately 17 seconds. Immediately following this start-up process, the valve(s) will move to the center position, at which time the center LED will light.

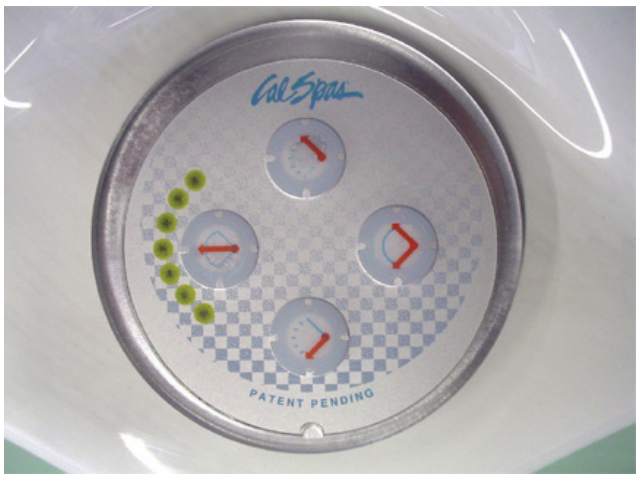


Figure 12. Cal Spas™ Flow Diverter

Button Functions

Every press will move the valve(s) one stop. The LED that is lit will move up (clockwise) to the next available position.

Every press will move the valve(s) one stop. The LED that is lit will move down (counter-clockwise) to the next available position.

This button moves the valve(s) to the most extreme positions. The first press will move the valve(s) and cause the LED to travel to the top (most clockwise) position. The next press will move the valve(s) in the other direction and the LED will move to the bottom (most counter-clockwise) position.

Pressing this button will center the valve(s) and the center LED will be lit.

Air Venturis

Air venturis are the smaller knobs located around the top of your spa. They can also be distinguished from diverter knobs by the arrows and the words “OFF”, “ON” and “AIR” marked on them (Figure 13). Each one will let you add a mixture of air with the jet pressure. This is accomplished by simply rotating the air venturi knob to the left (counter-clockwise) to increase the amount of airflow through the jets. To decrease the amount of airflow through the jets, simply rotate the handle to the right (clockwise).

Figure 13. Air Venturis

Adjustable Therapy System™

Spas equipped with the Adjustable Therapy System™ (ATS) allow you complete control of the therapy seat and/or lounger. This unique system offers convenient operation with its seat side controls, seven different massage modes, and a soothing demo mode -- all at the touch of a button (Figure 14).

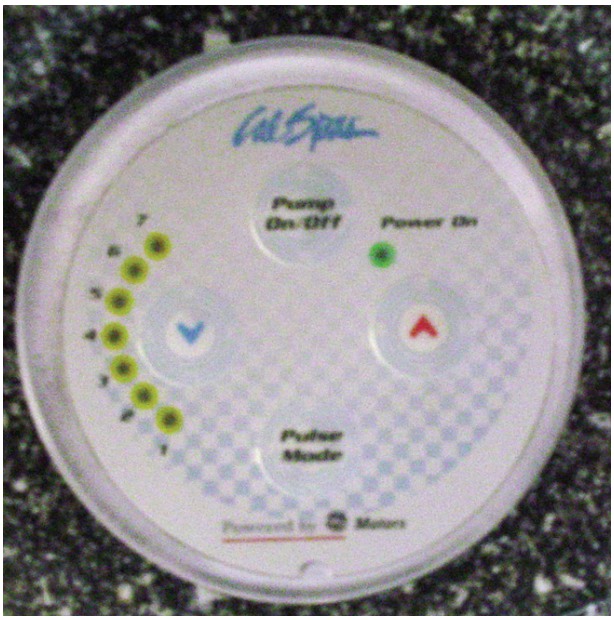


Figure 14. Adjustable Therapy System™ seatside control

Pump On/Off

This button allows the user to turn on and off the ATS™ seat pump. Press this button once to turn the pump on. Once on, the green LED light on the control panel will illuminate, indicating that the system is operational. To turn off the pump, simply press the PUMP ON/OFF button a second time. Note: The pump must be on prior to operating any other features of this system.

Pulse Mode

This button allows the user to turn the ATS™ massage control on and off. Press the pulse button once to turn on the massage control. Once pressed, the orange LED in position number 1will come on, indicating the number one pulse mode. Each press of either the up or down button will move the orange LED up or down to the next pulse mode.

Note: Allow one second between each button press. Pressing the button quickly may cause improper operation. To turn the pulse mode off and return to normal pump operation, simply press the PULSE MODE button a second time.

Up

This button allows the user to cycle up from one through seven massage modes one at a time. Each mode offers a different pulsating massage. Some modes are faster than others, so just cycle through them to find the massage you like best.

Down

This button allows the user to cycle down through all seven massage modes, one at a time.

Demo Mode

After turning on the pump and pulse modes, press and hold both the UP and DOWN buttons together for two seconds then release. In this mode, every 20 seconds this system will automatically switch to the next massage

mode. Once the user finds the perfect massage mode, pressing either the UP or DOWN button will stop the demo in that massage mode.

Time Reset Mode

Pulse mode will normally run for 15 minutes then automatically shut off. For another 15 minute session, press the PUMP ON/OFF button and the PULSE MODE button. A green LED will blink and the pump will run on high speed mode as part of a 15-minute cool down period. After that, the pump will stop automatically and the green LED light on the panel will continue to blink for one minute then shut off automatically. After the second fifteen minute session, the system will run through a cool down cycle for up to two hours. In this cool down mode, the user will only be able to operate the pump (by again pressing the PUMP ON/OFF button). However, the massage mode will remain off until the cool down mode is completed.

Pulse Mode System

Pulse mode system will shut off for two hours unless reset by the following procedure. During this time the pump will run at a maximum speed.

- In the off position, press the PULSE MODE button once.
- The green power light will flash to indicate reset.

Multi-Colored Spa Light Operation

10 Dramatic Lighting Modes

Experience each different lighting mode by turning the spa light off and on to change lighting effects:

- WHITE: Pure, bright white
- SPECTRUM SLOW DANCE: Vibrant, slow fade through all colors
- SUNBURST: Yellow and orange color swirl
- BLUE: Clear and brilliant blue
- RED: Radiant and invigorating red
- GREEN: Nature's lush green
- MAGENTA: Rejuvenating glow of pink, blue and red
- TIDAL FADE: Fade through blues and greens
- AFTERBURNER FADE: Fade through red, orange, pink, yellow & purple
- COLOR BURST: Energetic strobe through all colors

Operating the Multi-Colored Spa Light

1. Turn the spa light on by pressing the LIGHT button on the top-side control panel.
2. To filter through the different color choices, press the button on and off. Each time you press the button, you advance to the next color.
3. To turn the spa light off when not in use, press the LIGHT button.

Using the Random Light Feature

1. Turn the spa light on by pressing the LIGHT button on the top-side control panel.
2. Cycle through the color range twice. After the last light from the second cycle has been lit, the random light feature turns on and the spa light cycles through each individual light.
3. To turn the spa light off when not in use, press the LIGHT button.

The slow fade feature comes on right after the color white. The first color for the feature is green and then slowly goes through the color spectrum. The last fade does the same thing as the slow fade, only faster.

Spa Cover

Important! Keep the spa covered when not in use!

- Covered spas will use less electricity in maintaining your set temperature.
- Covering your spa will protect your spa's finish from the sun's ultraviolet rays.
- You are required to keep the spa covered to maintain warranty coverage.
- Covering your spa helps prevent children from drowning in the spa.

See the manual enclosed with your cover for instructions on mounting the locks and how to lock and unlock the cover.

In addition, while the spa cover is rigid, it is not designed to support any weight. Therefore, as a safety precaution and to preserve the life of your cover, you must not sit, stand, or lie on it; nor should you place objects of any kind on top of it.

Aromatherapy

This optional accessory is very easy to use. Simply unscrew the cap on the aromatherapy chamber and drop in a bag of scented aromatherapy beads and replace the cap.

Waterfalls

Some spa series include optional waterfalls. When the booster pump is on, turn the knob near the waterfall. Water will immediately start flowing through it.

Water Quality Maintenance

Chemical Maintenance Schedule

Great spa water is easily achieved when the right chemicals are used and a Clear Water Plan is implemented. The key to clean, clear, and safe water is to fully understand how spa water reacts to users, operation and chemical use. The Clear Water Plan will help give you that understanding.

Prior to filling a spa for the first time, or after a routine draining, you will want to follow this start-up plan to extend water life and performance. If you are following either bromine or chlorine Clear Water plans, you will notice that both start-up processes are the same with the exception of Step 4. As with all chemical dosages listed in the Clear Water Plan, start-up dosages are intended for 500 gallon spas. Please adjust the chemical dosages to the capacity of your particular spa.

Start-Up

1. Clean spa thoroughly with Cal Spas™ Multi-Purpose Cleaner.
2. Apply a protective coat of Cal Spas™ Fast Sheen to the acrylic surface.
3. Fill spa to proper water level with normal tap water. (Do not use soft water.)
4. Add either bromine or chlorine (according to your plan):
   a. Bromine Plan: Add 2oz. of Cal Spas™ Go Brom to establish a bromine base level.
   b. Chlorine Plan: Add two tablespoons of Cal Spas™ Granular Chlorine to the spa water.
5. Pour in 3oz. of Cal Spas™ Metal Protector to the center of the spa.
6. Sprinkle 2oz. of Cal Spas™ Oxidizer Shock in the center of the spa and leave spa uncovered and turn on the jets for 30 minutes prior to recovering.
7. Allow 24 hours prior to testing and implementing the bromine or chlorine Clear Water Plans.

Bromine Users

This plan and its chemical dosages are intended for Cal Spas™ chemicals only. Most chemical manufacturers use different chemical formulas and strengths. Only Cal Spas™ chemicals are specially formulated to provide chemical balance at lower dosages. Compare labels and dosages and see for yourself. You will get greater protection and performance with Cal Spas™ chemicals.

Always read and follow all printed instructions on chemical bottles and packages.

Day One (Monday)

1. Test spa water using test strips. (Check for valid expiration date.)
2. Add two bromine tablets to floater. (Amount of tablets needed will vary with water temperature.)
3. Adjust Total Alkalinity, then the pH if needed. (See pH and Alkalinity sections for more information.)
4. Add 2oz. of Stan and Scale Defense.
5. Pull the dirty filter from the spa and place into liquid filter cleaner solution.
6. Place your extra, cleaned, fully dried filter cartridge in the spa.
7. Vacuum your spa with the Cal Spas™ vacuum.

Day Two (Wednesday)

1. Test spa water using test strips. (Check for valid expiration date.)
2. Adjust total alkalinity, the pH if needed. (See pH and alkalinity sections for more information.)
3. Pull the filter from Liquid Filter Cleaner solution, hose it off and allow to dry.

Day Three (Friday)

1. Test spa water using test strips. (Check for valid expiration date.)
2. Check bromine floater for sufficient amount of bromine tablets. (Add one, if necessary.)
3. Adjust Total Alkalinity, then the pH if needed. (See pH and Alkalinity sections for more information.)
4. Add 1oz. of Oxidizer Shock.

Every Month

Check equipment area for leaks, rodents and insects.

Every 3 to 4 months

1. Drain and clean your spa with Multi-Purpose Cleaner.
2. Polish the acrylic surface with Fast Sheen.
3. Clean and treat spa cover, pillows and Ultra Spa Cabinets with Cover Protector.

Every 6 Months

Clean and treat redwood spa cabinets and gazebos with Nu-Spa redwood stain renewer & brightener.

Cal Spas™ Clear Water Plan (Chlorine)

This plan and its chemical dosages are intended for Cal Spas™ chemicals only. Most chemical manufacturers use different chemical formulas and strengths. Only Cal Spas™ chemicals are specially formulated to provide chemical balance at lower dosages. Compare labels and dosages and see for yourself. You will get greater protection and performance with Cal Spas™ chemicals.

Always read and follow all printed instructions on chemical bottles and packages.

Day One (Monday)

1. Test spa water using test strips. (Check for valid expiration date.)
2. Add two tablespoons of Granular Chlorine. (Chlorine dissipation will vary with water temperature.)
3. Adjust Total Alkalinity, then the pH if needed. (See pH and Alkalinity sections for more information.)
4. Add 2oz. of Stan and Scale Defense.
5. Pull the dirty filter from the spa and place into liquid filter cleaner solution.
6. Place your extra, cleaned, fully dried filter cartridge in the spa.
7. Vacuum your spa with the Cal Spas™ vacuum.

Day Two (Wednesday)

1. Test spa water using test strips. (Check for valid expiration date.)
2. Adjust Total Alkalinity, then the pH if needed. (See pH and Alkalinity sections for more information.)
3. Pull the filter from the Liquid Filter Cleaner solution and hose it off and allow it to dry.

Day Three (Friday)

1. Test spa water using test strips. (Check for valid expiration date.)
2. Add two tablespoons of Granular Chlorine. (Chlorine dissipation will vary with water temperature.)
3. Adjust Total Alkalinity, then the pH if needed. (See pH and Alkalinity sections for more information.)
4. Add 1oz. of Oxidizer Shock.

Every Month

Check equipment area for leaks, rodents and insects.

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1. Drain and clean your spa with Multi-Purpose Cleaner.
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3. Clean and treat spa cover, pillows and Ultra Spa Cabinets with Cover Protector.

Every 6 Months

Clean and treat redwood spa cabinets and gazebos with Nu-Spa redwood stain renewer & brightener

Clean Water with the Cal Balance™ Magnetic Water Stabilizer

Cal Spa's exclusive Cal Balance™ Magnetic Water Stabilizer promotes clean water naturally by organizing water molecules into a positive charge which not only helps coagulate debris for improved filtration, but also traps calcium and scale into a suspension that gives your water a soft, silky feel. The combination of these advanced components add up to a Cal Spa's filtering system designed to insure that 100% of your water is continually filtered. This also guarantees that your water will be crystal clear.

Cal Zone Ozonators

Cal Zone Quest 1000 Ozonator™

Your new Cal Zone Quest 1000 Ozonator™ (Figure 15) is a state-of-the-art bacteria killing machine. This unit will assist you in maintaining clean and clear water, while saving you time and expense with spa chemicals.

Operation

Your Cal Zone Quest 1000 Ozonator™ will automatically operate during the filter cycles and any other time the spa is running on low speed. The ozone indicator light on the Quest 1000 ozonator will glow purple letting you know that the system is operational.

Due to the nature of the ozone light, it is difficult to see the light in daylight. This lens should be checked at night or in a shaded area.

Figure 15. Cal Zone Quest 1000 Ozonator™

Cal Zone Quest 2000 Ozonator™

Your new Cal Zone Quest 2000 ozonator™ (Figure 16) is a state-of-the-art bacteria killing machine. This unit will assist you in maintaining clean and clear spa water, while saving you time and money with spa chemicals.

EXCLUSIVE FEATURE
Cal Zone
by Cal Spas
QUEST 2000
PATENT PENDING
OZONE CARTRIDGE
REPLACEMENT INSTRUCTIONS
• Turn off power to spa at the G.F.C.I.
• Unplug gray Ozone plug on right side of control box
• Unscrew thumb screw on front of Ozone unit counter clockwise
• Grip Ozone unit firmly
• Unplug Ozone tube on left side of Ozone unit.
• Pull out Ozone cartridge
• Plug in new Ozone cartridge
• Tighten thumb screw on front of Ozone unit clockwise
• Plug in Ozone tube on left side of Ozone unit
• Plug in gray Ozone plug into control box
• Turn on power to spa
Replacement cartridge
part # 020 18100020

Figure 16. Cal Zone Quest 2000 Ozonator™

Operation

Your Cal Zone Quest 2000 Ozonator™ will automatically operate during the filter cycles. When the spa is in filtration cycle, the Ozone Indicator light on the topside control panel will light up, letting you know that the control box is sending power to the Cal Zone Quest 2000 Ozonator™ unit.

Located on the front side towards the bottom, is the ozone-mixing chamber. When operating, the lens will display a purple/black light.

Due to the nature of the ozone light, it is difficult to see the light during the daytime. This lens should be checked at night or in a shaded area.

Ozone Servicing

Your new Cal Zone Quest 2000 Ozonator™ has been engineered to be service-friendly. In the event that you need to replace the ozone cartridge, simply follow the instructions listed on the front of the ozone unit.

Clean Water with the Cal Clarity™ System

This section is ONLY for spa owners with the Cal Clarity™ automatic bromine generator. If your spa does not have a Cal Clarity™ bromine generator, you need to read the previous section, which explains the Cal Spas™ Clear Water Plan.

The following procedures explain how to keep the water in your spa clean and clear with the automatic bromine generator. Because this is the most important chapter in this manual, we strongly recommend you read it carefully.

Cal Clarity™ System Generator

Your Cal Clarity™ System Generator (Figure 17) will help keep your spa water always clean and clear. As a preferred method of maintaining the chemical balance of your spa water, it is relatively low cost, virtually maintenance-free, and extremely effective in helping you spend your time enjoying your spa.

The automatic bromide generator eliminates the need to purchase, store, and handle harsh or dangerous chemicals and is simple to operate. It will not function with the Cal Zone Quest Ozonator™.

Use the dial to increase or decrease the level of bromine generated, or turn it all the way clockwise to turn it off.

See the section on maintaining clean spa water with the automatic bromine generator for directions on proper bromine level adjustment.

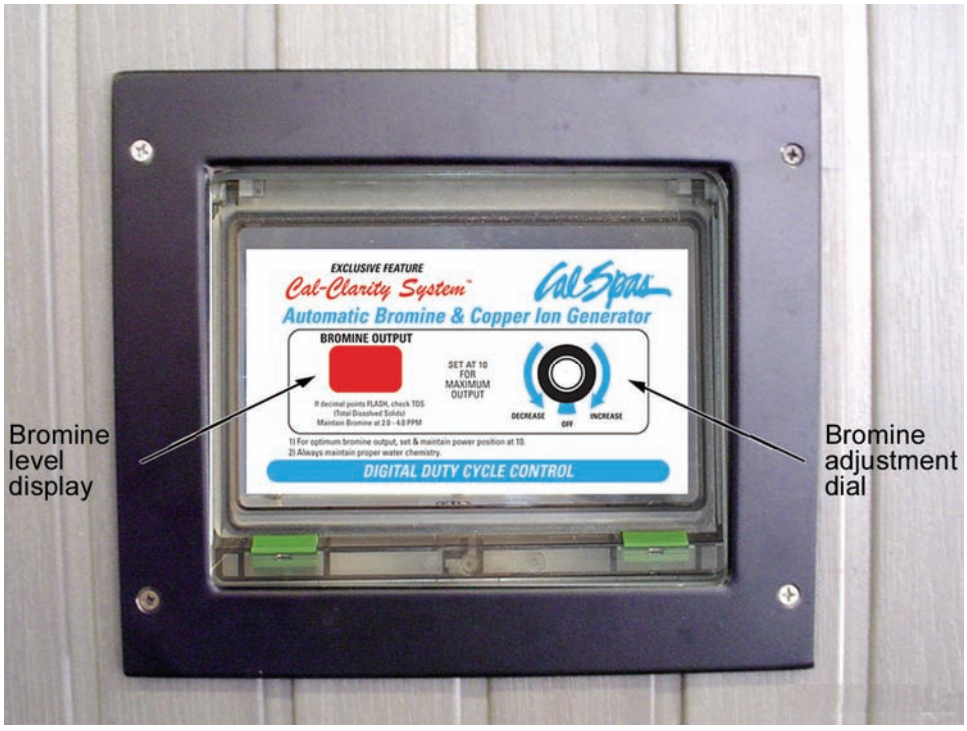


Figure 17. Bromine generator

Water Chemistry for Start-Up

Before operating the bromine generator, make sure the following water chemistry is established and verified:

- TDS (total dissolved solids) must be less than 500 ppm (parts per million) before adding the TRU-BLU sodium bromide bank to the spa's water. (The ideal range is 50 - 300 ppm.) Add TRU-BLU at a rate of two pounds for every 100 US gallons (370 liters). TDS will be approximately 2,500 ppm TDS should not exceed 3,500 ppm.
- pH must be between 7.2 and 7.8. (The ideal range is 7.4 and 7.6.)
- Total alkalinity should be between 80 and 120 ppm.
- Chlorine stabilizer should be 0 ppm.

Starting Up the Cal Clarity™ Bromine Generator

1. After the spa has been filled, make sure the dial on the face of the bromine generator is turned to the OFF position.
2. Balance both the pH and alkalinity.
3. Make sure that the spa's pump is set to HIGH.
4. Sprinkle one two-pound bottle of TRU BLU sodium bromide per 100 US gallons (370 liters) of water evenly over the surface of the water, shaking each bottle well first to break up any lumps. Allow three to five minutes for the TRU BLU to dissolve completely before proceeding to the next step.
5. Turn the dial clockwise until the LED display (to the right of the dial) reads 10. This will initiate the build-up of a bromine bank.
6. Monitor the bromine level until it is within the recommended range. (This may take a few days, depending on the quality of water used on the initial fill.)

Note: It can take several days for the bromine level to stabilize because the water that you put into your spa contains impurities that need to be neutralized, thereby using up the initial bromine that is generated. You can expedite this process by "shocking" the water with a non-chlorine product.

7. Once the desired level has been achieved, turn the dial down until a maintenance setting is achieved. (Finding your maintenance setting may also take a few days. Test your water daily in conjunction with using your spa. With monitoring of your spa use, and adjustment of the output level of the bromine generator, you will have arrived at your maintenance setting when, after a period of normal use of your spa, you no longer have to adjust the output level on your bromine generator to keep your bromine level within the range recommended by the manufacturer.)

The appropriate setting for your bromine generator will depend on how often you use your spa. A spa with a higher-than-average bather load will require a higher setting on the bromine generator. This simply means that the bromine generator needs to product more bromine to maintain the level recommended by the manufacturer. If the spa does not have a circulation pump that runs continuously, then ensure that your spa's filtration cycle is programmed so that water is circulated at least four hours per day to ensure adequate bromine production. (Spas with higher than average bather loads may require a longer filtration cycle.)

Maintaining the Proper Water Chemistry

Ideal pH

The ideal pH range is 7.2 to 7.6.

The abbreviation pH stands for potential hydrogen. This test determines the acid content of your spa water. This test should be done weekly and adjusted accordingly. Always add chemicals to water -- never add water to chemicals.

- If the pH is above 7.6, lower it by adding muriatic acid or sodium bisulfate.
- If the pH is below 7.2, raise it by adding a base (such as baking soda or soda ash).

See your spa dealer for Cal Spas™ chemicals for adjusting your pH.

Complications which may occur from high pH include:

- The sanitizer may be unable to kill algae or bacteria.
- Solids may come out of the solution.
- The water may become cloudy.
- Calcium may out of the solution and cause scale or eye irritation.

Complications which my occur from low pH include:

- Water will become too acidic and cause eye irritation
- Damage to the spa and spa equipment

Also remember: Rain or the addition of fresh water will cause a change in pH.

Total Alkalinity

The ideal total alkalinity range is 80 to 120 ppm. Total alkalinity is a test done monthly to determine the amount of alkaline material in the water. It also measures the water's ability to neutralize acid and acts as a buffer against sudden pH changes.

- If the total alkalinity is high, lower it by adding small amounts of sodium bisulfate or muriatic acid over a period of three days. Follow the label directions based on the size of your spa.
- If the total alkalinity is low, raise it by adding bicarbonate (i.e., baking soda).

See your spa dealer for Cal Spas™ chemicals for adjusting your total alkalinity.

Total Dissolved Solids

The ideal range prior to adding TRU-BLU is 50 - 300 ppm.

The ideal range after adding TRU-BLU at a rate of two pounds for every 100 gallons is 2,500 ppm.

Adjusting pH

Adjusting pH with Sodium Bisulfate

pH Reading Prior to Chemical Addition:	Sodium Bisulfate to Add (500 gallon/1850 liter spa)
7.8 - 8.0 ppm	1 ounce
8.0 - 8.2 ppm	1.5 ounces
Greater than 8.4 ppm	2 ounces

Retest the spa's pH vale after allowing two hours to pass and repeat the above steps if required. pH is closely affected by your spa's total alkalinity. Test your spa's pH value at least twice every month. The correct range for pH is 7.2 - 7.8 ppm. The lower the pH value, the more effective bromine is in spa water sanitation.

Caution: If the water becomes acidic (pH below 7.2), damage to spa surfaces and equipment may occur.

pH has a direct effect on bromine's effectiveness at sanitizing your spa's water! It also affects bather comfort. Imbalance can result in eye irritation.

Adjusting Bromine Level

As discussed earlier, desired bromine levels vary between spas, mainly due to different bather loads. You will quickly determine the right level for your particular spa. Of course, if bromine readings are lower than desired, you can just turn up the dial on the bromine generator. Likewise, if bromine readings are higher than you want, you can simply turn down the same dial. The bromine level will then gradually reduce tot he production rate required to suit your needs.

Determining Sodium Bromide Level

It is important to be able to maintain the appropriate amount of TRU BLU sodium bromide in your spa's water. By following these instructions, you will be able to. There are some things to consider, however. You will normally find that over the weeks and months that you are enjoying the use of your tub, the water level will decrease for several reasons. One is evaporation. The other is a result of water "removal" (splashing, exiting bathers, etc.). The first cause of water loss -- evaporation -- will not reduce the sodium bromide that is available in your tub, because sodium bromide does not evaporate. The second cause -- water removal -- will, however, result in loss of some sodium bromide.

Since it is impossible to know how much water loss results from evaporation and how much from removal, it is necessary to determine your sodium bromide level when adding water to the tub. There are available, through your dealer, sodium bromide test strips. Use of these strips will help you determine how much, if any, TRU BLU to add. Consult your dealer for more information.

Common Questions About the Automatic Bromine Generator

Q. Why do pool and spa professionals warn consumers against using chlorine in hot tubs and spas?
A. Chlorine is an extremely corrosive chemical and may cause damage to equipment; moreover, most spas maintain temperatures of over 100 degrees and chlorine readily evaporates at about 97 degrees, potentially leaving the spa's water untreated.

Q. What causes a fishy or musty smell with spas?
A. Low bromine or no bromine, which is usually caused by failing to fill up the bromine feeder or failing to return it to the spa after bathing.

Q. How often do I need to drain my spa with an automatic bromine generator?

A. With traditional chemical treatment plans, spas need to be drained and cleaned about every three months in order to remove residue and by-products that accumulates in the water. However, with an automatic bromine generator, the build-up of residue is minimal, and spa owners can go as long as a year without having to drain and refill their spas.

Q. How may hours per day will I have to operate my spa's pump once I install an automatic bromine generator?

A. Most spas will operate at four hours of water circulation per day, but if you find that your dial is at a high setting but your bromine level is lower than desired, you might want to run the pump for up to eight hours per day. Remember that all spas are unique (due to different bathers, different loads, etc.). Within a short time, you will be able to determine the right circulate cycle for your particular spa. (Also note that in the event of a power outage, the filtration cycle will revert back to the factory default setting.)

Q. Now that I have an automatic bromine generator, do I sill have to check my spa's chemistry?

A. Yes, definitely! You need to maintain proper pH and total alkalinity at all times, because pH has a direct relationship to the effectiveness of bromine to sanitize water.

Q. Why is there little or no bromine odor with the automatic bromine generator?

A. This is due to the electrolytic bromine generation process. The electronic field around the bromine-generating cell destroys "bromamines", which are what cause the strong, objectionable odor (not bromine itself).

Q. Why does the display go to a minus sign every few minutes?

A. This indicator informs you that the polarity of the electrodes is changing every two minutes. This process is for the cleaning of the electrode cell to prevent any scale build-up on it.

Q. My automatic bromine generator lights up but I can't get a bromine reading.

A. There are three reasons why you might not get a reading:

- It can take several days for the bromine level to stabilize because the water you put into your spa contains impurities that need to be neutralized, thereby using up the initial bromine that is generated. Refer to that section on how to resolve this problem.
- The TDS (total dissolved solids) count might be too high -- bromine production will be impaired when the TDS count exceeds 3500 ppm.
- The phosphate level might be too high -- bromine production can be impaired when the phosphate level exceeds 1125 ppb. Ask you dealer about products that reduce phosphates.

Q. My automatic bromine generator is wired in but it doesn't light up.

A. Contact a certified electrician to examine your bromine generator and your spa.

Cleaning and Maintaining Your Spa

Cleaning and Replacing the Filter

Filtration

Filtration is one of the most important steps you can take to ensure clean, clear water. Regardless of what some people may think, it is far less expensive to fix water clarity problems by filtering your spa than by using excessive amounts of chemicals, excessive filtration times, or by water replacement.

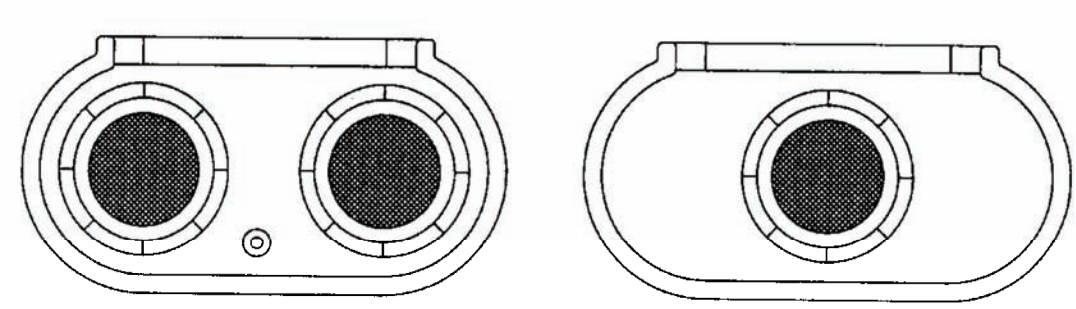
Cal Spas™ filtration system simply draws contaminated water through the exclusive Bio-Clean™ filter removing debris from the water. It then pumps the newly cleaned water back into the spa through various jets. Spas equipped with the optional Quest 2000 Ozonator will also receive ozone injection into the filtered water for further protection against contaminants during filtration cycles. Filtration also ensures that chemicals are mixed thoroughly through the water, increasing performance.

Filtration starts on electronically-controlled spas as soon as the pumps are primed and water flow is steady. As the flow of water goes through the filter, dirt and debris is removed and accumulated in the filter cartridge. As the filter cartridge accumulates dirt and debris, water flow is restricted and jet performance is reduced. This can cause your spa to not run or heat effectively.

Clean your filter regularly and replace as needed.

Filter Cleaning

Your new Cal Spa has been designed for quick and easy filter maintenance. The filter cartridge should be cleaned once a week. These instructions apply to both dual and single filtration systems (Figure 18).



Filtration System
100 Sq. Ft. System

Filtration System
50 Sq. Ft System

Figure 18. Dual and single filtration systems

1. Turn the power off at the breaker.
2. Remove the filter(s) cover (if applicable) by rotating the cover counterclockwise and lifting it off..
3. Remove the filter(s) basket. With some types you may need to align the flat areas on the filter basket and the canister.
4. Remove the filter(s) by pulling up and out.
5. Clean the filter with a garden hose as follows:

a. Hold the filter vertically.
b. Spray the filter cartridges with a pressure nozzle, starting from the top and spraying down each pleat.
c. Turn the filter cartridge over and repeat Step 5B.
d. Reinstall the filter cartridge in reverse order of removal.
e. Deep clean filter cartridge(s) every month. Use only a Cal Spas™-approved filter-cleaning chemical.

Exclusive Bio-Clean™ Filter Cartridge

The filter cartridge is designed to remove dirt, sand, minerals, phosphates, bather waste and other solids from the spa. Unfortunately, some spa owners fail to include filter cleaning as part of their chemical maintenance plan. Filters accumulate debris and become prime areas for bacteria growth.

The Cal Spas™ exclusive Bio-Clean™ Filter is the only antibacterial filter cartridge on the market today. Having a filter cartridge that prevents bacteria growth is simply added protection for those times you forget to clean the filter. We recommend that you only replace your spa's filter cartridge with a Bio-Clean™ filter cartridge for ensured protection and peace of mind.

Draining Your Portable Spa

Your spa should be drained every four to six months, and refilled with fresh tap water. The following is the recommended method for draining your spa.

1. Turn off the power at the breaker.
2. Remove all filters.

If your drain valve is mounted on the side of the spa cabinet (as shown in Figure 19), proceed to step 5.

Figure 19. Cabinet mounted drain valve

If your drain valve is located inside the spa cabinet:

3. Using a Phillips screwdriver, remove the screws to the access panel and open it.
4. Locate hose ending with the 3/4 inch hose-bib fixture (Figure 20).

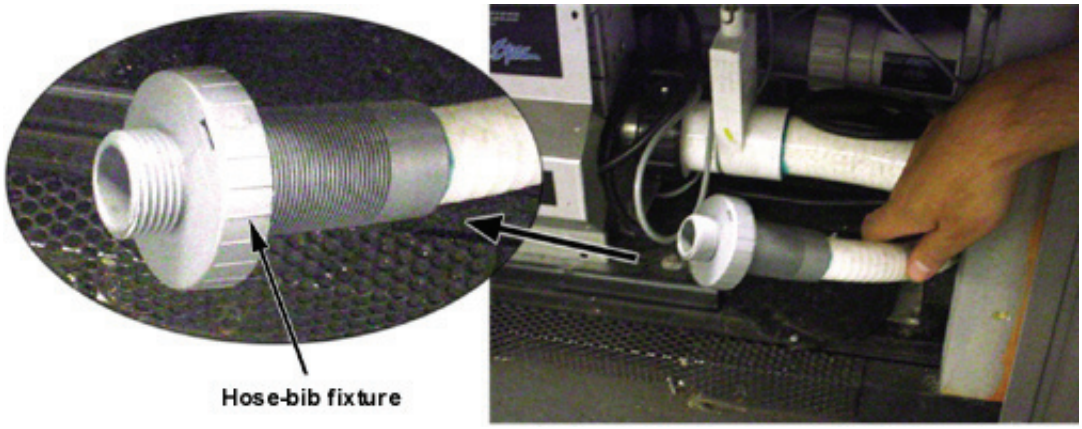


Figure 20. 3/4 inch hose-bib fixture

5. Hook up the female end of a garden hose to the drain fitting.
6. Place the other end of the garden hose where you would like the water to drain to.
7. Twist the hose-bib fixture counterclockwise and pull to open the drain.
8. Let spa drain completely, then remove garden hose.
9. Twist the hose-bib fixture clockwise to close it.

Winterizing (Cold Climate Draining)

In many areas of the country, the temperature drops below 32˚F. We recommend that you always have your spa full of water and running at normal spa temperatures (80˚F to 100˚F). This will help reduce the risk of freezing in your spa and your spa's equipment.

WARNING: IF YOU FIND THE NEED TO DRAIN YOUR SPA, PLEASE BE AWARE OF THE POTENTIAL OF FREEZING IN YOUR SPAS EQUIPMENT AND PLUMBING. EVEN IF THE DIRECTIONS BELOW ARE FOLLOWED PERFECTLY, THERE IS NO GUARANTEE THAT YOUR SPA WILL NOT SUFFER FREEZE DAMAGE AND THEREBY VOID THE WARRANTY COVERAGE.

1. Open all filter covers..
2. Remove the filter baskets and filters.
3. Drain your spa completely as described in the instructions above.
4. Remove drain plugs from the front of the pumps.
5. Disconnect the unions from both sides of the pump.
6. Use a wet/dry vacuum to blow any remaining water out of the jets and equipment area.
7. Cover your spa with a good spa cover and an all-weather tarp to ensure that neither rain nor snow enter the spa.

Cleaning the Cover, Shell and Pillows

Due to the constant punishment your spa cover and pillows receive, you should protect them by applying Vinyl and Leather Cleaner as part of your monthly maintenance plan. Cal Spas™ Vinyl and Leather Cleaner is specifically designed to protect spa covers and pillows from chemical and ultraviolet light damage. It accomplishes this without leaving an oily residue behind that is normally associated with common automotive vinyl protectants.

Use of Vinyl and Leather Cleaner

Cal Spas™ Vinyl and Leather Cleaner should be used sparingly. Incorrect usage may cause water clarity issues.

Spa Covers

1. Remove spa cover from spa.
2. Allow spa cover to dry completely.
3. Spray Vinyl and Leather Cleaner to cover evenly and wipe dry.
4. Allow spa cover to dry completely.
5. Reinstall cover on spa.

Pillows

1. Wipe pillows dry with a soft cloth.
2. Carefully spray Vinyl and Leather Cleaner directly onto pillow.
3. Wipe pillows dry.
4. Allow pillows to dry completely.

WARNING: DO NOT USE AUTOMOTIVE VINYL PROTECTANTS ON SPA COVERS OR PILLOWS. THESE PRODUCTS ARE GENERALLY OIL-BASED AND WILL CAUSE SEVERE WATER CLARITY ISSUES THAT ARE DIFFICULT TO CORRECT.

Multi-Purpose Cleaner (Spa finish cleaning)

Cal Spas™ Multi-Purpose Cleaner is an essential part of maintaining your spas finish. Through normal use, the spa's finish can accumulate dirt, oil, and calcium causing a rough feel and unsightly scum lines. Cal Spas™ Multi-Purpose Cleaner is a low detergent, non-abrasive cleaner specifically formulated to clean the spa without damaging its acrylic finish. The most effective solution to minimize cleaning time is prevention. When the following steps are followed, the spa's finish will actually start to resist most of the elements that cause calcium build-up and make scum line clean-up easier.

Prior to Spa Start-Up and Refilling

1. Spray Cal Spas™ Multi-Purpose Cleaner directly on to the spa's finish.
2. Wipe clean with a clean soft cloth.
3. Repeat on heavily calcified areas.
4. Wipe spa thoroughly with a wet sponge, rinsing often with a bucket of clean water.
5. Allow spa to dry completely.
6. Apply a coat of Cal Spas™ Fast Sheen to the spa's entire finish with a soft towel or sponge.
7. Allow Fast Sheen to dry until white and powdery.
8. Buff clean with a soft cloth, rotating frequently.

Periodic Maintenance

1. Spray Cal Spas™ Multi-Purpose Cleaner directly to the spa's finish.
2. Wipe clean with a clean soft cloth.
3. Wipe spa thoroughly with a wet sponge, rinsing often in a bucket of clean water.

Cal Spas™ Multi-Purpose Cleaner should not be sprayed directly into the spa water. Incorrect usage of this product will cause water clarity issues.

Fast Sheen (Spa finish protecting wax)

Cal Spas™ Fast Sheen is an essential part of maintaining your spa's finish. Through normal use, the spa's finish can accumulate dirt, oil, and calcium, causing a rough feel and unsightly scum lines. Cal Spas™ Fast Sheen is a non-oil based wax that is specifically formulated to protect the spa's finish from the chemicals and minerals associated with normal spa use. The most effective solution to minimize cleaning time is prevention. When the following steps are followed, the spa's finish will actually start to resist most of the elements that cause calcium build-up and make scum line clean-up easier.

Prior to Spa Start-Up and Refilling

1. Spray Cal Spas™ Multi-Purpose Cleaner directly to the spa's finish.
2. Wipe clean with a soft cloth.
3. Repeat on heavily calcified areas.

4. Wipe spa thoroughly with a wet sponge, rinsing often in a bucket of clean water.
5. Allow the spa to dry completely.
6. Apply a coat of Cal Spas™ Fast Sheen to the spa's entire finish with a soft cloth or sponge.
7. Allow Fast Sheen to dry until white and powdery.
8. Buff clean with a soft cloth, rotating frequently.

IMPORTANT: Cal Spas™ Fast Sheen should not be used on spas full of water. Only apply to clean, cool, dry surfaces. Incorrect product usage may cause water clarity issues.

Removing and Reseating the Pillows

You can remove the pillows for cleaning and maintenance quickly and easily. This method works for all types of pillows.

Grab the lower edge of the pillow with both hands firmly and pull up. As you do this, the pillow inserts will pop out of the holes. (See Figure 21.)

Figure 21. Removing a pillow

Reseat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough to insert the pegs back into the holes. (See Figure 22).

Figure 22. Reseating a pillow

Using the Marine Grade Audio System

Spas equipped with the marine grade audio system use either the Clarion audio system (Figure 23) or the Aquavibe audio system (not pictured). Each Cal Spa™ unit equipped with this audio system is delivered with the manufacturer's operating instructions. We strongly recommend that you read these instructions prior to operating this unit.

These instructions describe basic functions. See the manufacturer's operating instructions for other features and functions. These instructions are delivered with the Cal Spas™ owner's manual in a clear plastic bag.

The Clarion marine grade stereo (Figure 23) is the standard stereo for spa owners with this option.

Figure 23. The Clarion marine grade stereo

To insert a CD into the CD player, pull down the CD drive cover to expose the CD drive (Figure 24).

Figure 24. Opening the CD drive

The following describes basic functions:

[PWR] button Press the button to turn on the power.
Press and hold the button for one second to turn off the power.
Switches the operation mode among the ratio mode, etc.

[SCN] button	Performs scan play for 10 seconds for each track while in CD mode.
[RPT] button	Repeat play while in CD mode.
[HOOK]	Open the door by pushing up the hook.
[RDM] button	Performs random play while in CD mode.
[DOOR]	Door must be totally closed to prevent water going into the unit.
[P/A] button	Performs present scan while in radio mode. When the button is pressed and held, auto store is performed.
[D] button	Switches the display indication (main display, sub display, clock display).
[T] button	Use the button to input a title in CD mode. Press and hold the button for one second or longer to enter adjust mode.
[Z+] button	Use the button to select one of the three types of sound characteristics already stored in memory.
[ISR] button	Recalls ISR radio station in memory. Press and hold for two seconds or longer: stores current station into ISR memory (radio mode only.)
and buttons	Plays or pauses a CD while in the CD mode.
[DIRECT] button	Stores a station into memory or recall it directly while in radio mode.
[BAND] button	Switches the band, or seek tuning or manual tuning while in radio mode.
	Plays a first track while in CD mode.
[A-M] button	Press and hold the button for one second or longer to switch the MAGNA BASS EXTEND on or off.
and buttons	Press the buttons to increase or decrease the volume.
and buttons	Selects a station while in radio mode or selects a track when listening to a CD. These buttons are also used to make various settings. Press and hold the button for one second or longer to switch the fast-forward/fast-backward.
[M] button	Turns mute on and off.
[CD SLOT]	CD insertion slot.
[RESET] button	Press and hold the button for about two seconds when the following symptoms occur: • Nothing happens when buttons are pressed. • Display is not accurate.
button	Ejects a CD when it is loaded into the unit.

Using the Cal Entertainment System™

Spas equipped with the Cal Entertainment System™ use this all-in-one receiver, amplifier and CD / DVD player (see Figure 25). Each Cal Spa unit equipped with this system is delivered with the manufacturer's operating instructions. We strongly recommend that you read these instructions prior to operating this unit.

These instructions describe basic functions. See the manufacturer's operating instructions for other features and functions. These instructions are delivered with the Cal Spas™ owner's manual in a clear plastic bag.

Figure 25. CD / DVD stereo system

NOTE: Although the system is encased n a plastic housing with weather seals, the system is not waterproof. You must take every precaution to keep this system dry. Water damage is not covered by the manufacturer's warranty.

- Do not place wet CD's into this unit at any time.
- Always close the CD protection door.

Programming DVD Control with the Universal Remote Control

1. Turn on the DVD player manually.
2. On the remote control, press DVD once.
3. Press and hold SETUP until the LED blinks twice, then release SETUP.
4. Enter code #1142 for your DVD player. If you perform this procedure correctly, the LED will blink twice. If not, repeat steps 2 through 4.

Powering up the System and Playing the Radio

1. Press the POWER button on the unit or the remote control to turn the system on. The system automatically starts in the mode it was in when it was last shut off.
2. Press the MOD button to switch to the radio mode.
3. Press the left and right arrows located at the far right of the panel to tune the radio to a station.

Operating the TV

1. Press the MOD button on the stereo unit until AU IN appears on the front display.
2. Raise the TV as described in the next section.
3. Turn on the power to the TV by either pressing the ON button or using the remote control.

4. Use the remote control to select a channel.

Opening the Player and Playing a Disk

1. Press the OPEN button on the unit. The faceplate will gently lower and expose the disk drive (Figure 26).

Figure 26. Opening the faceplate

2. Insert a disk in the disk drive.
3. Flip up the faceplate.

WARNING: DO NOT INSERT WET CDs or DVDs! The stereo system is NOT waterproof or water-resistant. Water damage is not covered by the manufacturers warranty. Make sure that hands and DVDs are dry before coming in contact with this or any electronic option.

Playing a CD

1. Insert a disk in the disk drive as described above. The player will identify the type of disk and begin playing it.
2. Use either the remote control to start and stop the player and to jump to selections or use the buttons on the faceplate.
3. To remove the disk, press the small EJECT button beneath the disk drive slot.

Playing a DVD

1. Raise the TV monitor as described in the following section.
2. Turn on the TV at set the TV/VIDEO setting to VIDEO.
3. Insert a disk in the disk drive as described above. The player will identify the type of disk and begin playing it. Either the DVD menu will appear on the TV screen or the movie will begin playing automatically.
4. Use the remote control to navigate the DVD menu. To play the movie without the remote control, press the PLAY button in the center of the row of buttons along the bottom of the faceplate.
5. To remove the disk, press the small EJECT button beneath the disk drive slot.

Strap Removal

Manual and automatic TVs are shipped with two large plastic tie straps to prevent shipping damage. These straps must be removed prior to operation Remove the straps using the following these steps:

1. Remove the rear cabinet panel behind the TV monitor.
2. Locate the two white plastic tie straps.
3. Cut the two white plastic tie straps. USE EXTREME CAUTION not to cut any wires!
4. Replace the cabinet panel.

The TV monitor is ready for use.

Raising and Lowering the TV Monitor

17" TV Monitor

Use the TV button located on the auxiliary control panel to mechanically raise and lower the TV monitor.

- Press the button once to raise the TV Press once to lower.
- Press it once again to lower the TV.

The TV monitor will automatically lower after two hours of non-operation.

Programming the 17" TV control with the Universal Remote Control

1. Turn on the TV monitor with the manufacturer's remote control.
2. Press TV once on the waterproof remote control.
3. On the waterproof remote control, press and hold SETUP until the LED blinks twice, then release SETUP.
4. Enter code #0844 for your TV. If you perform this procedure correctly, the LED will blink twice. If not, repeat steps 2 through 4.

WARNING: The TV monitor is NOT waterproof or water-resistant. Water damage is not covered by the manufacturer's warranty. Make sure that hands are dry before coming in contact with this or any electronic option. DO NOT SPLASH WATER ON THE TV MONITOR!

17" Swivel TV Monitor

With this option, the 17" TV monitor is mounted on a swivel and can be turned manually left or right in order to increase screen visibility from all spa seats. If the TV is turned when you press the RAISE/LOWER button, it will not lower until you turn the TV back to its original position.

Programming the 42" TV Monitor with the Universal Remote Control

1. Turn on the CD player and the TV tuner using the manufacturer's remote control.
2. On the waterproof remote control, press TV once.
3. Press and hold SETUP until the LED blinks twice, then release SETUP.
4. Enter code #0731 for the 42" plasma monitor.. If you perform this procedure correctly, the LED will blink twice.
5. Turn on the TV tuner using the manufacturer's remote control.
6. On the waterproof remote control, press RCVR (receiver) once.
7. Press and hold SETUP until the LED blinks twice, then release SETUP.
8. Enter code #1598 for the TV tuner. If you perform this procedure correctly the LED will blink twice.
9. Press the TV button for monitor adjustments (volume, mute, etc.) and press the RCVR (receiver) button for TV channel selection.

Universal Remote Control Operation

The Cal Spas universal remote (Figure 27) has been pre-programmed to function with the entertainment system the spa has been configured with. However, in case you need to reprogram the remote, use the following device list for the programming code.

Device Manufacturer	Device Type	Code
Aquavibe Magnadyne	CD/REC	1745
JVC 42” plasma	Monitor	0731
Signet 15”	TV	0800
Signet 17”	TV	0844
Clarion VS735	DVD	1039
Farenheit	DVD	1142

Programming Instructions

1. Locate the brand name of your device.
2. Turn the device manually or with the manufacturer’s remote control provided.
3. On the waterproof remote control, press either TV, RCVR, DVD, or CD button once. (This will depend on the type of device you want to program.)
4. Press and hold the SETUP button until the LED blinks twice, then release SETUP.
5. Enter the four digit code listed above. If you entered the code correctly, the LED will blink twice. If not, repeat steps 2 through 4.

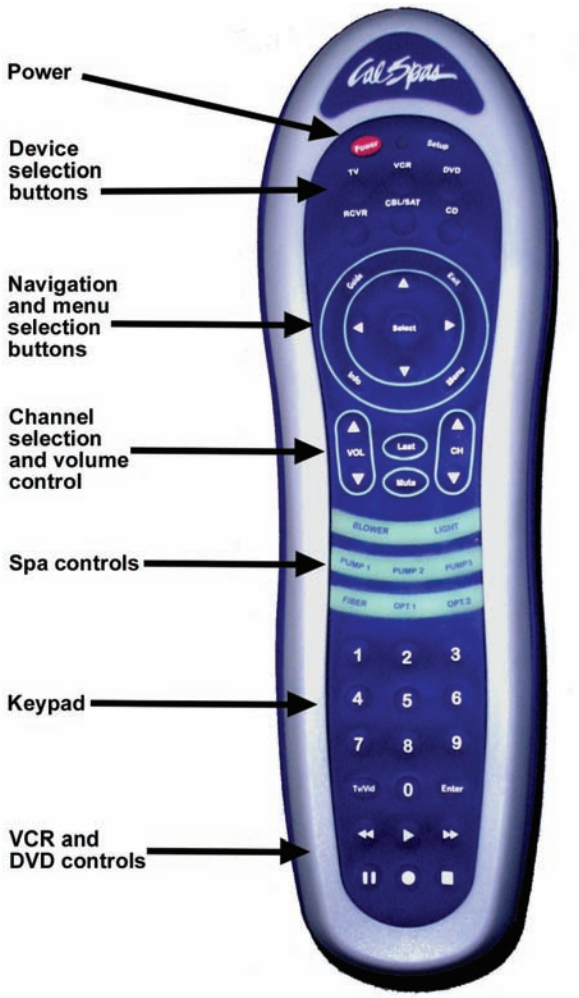


Figure 27. Universal remote for all spa and entertainment functions

- Power - Turns the TV on and off
- Device selection buttons - Selects among six devices:TV, VCR, CD player, DVD player, stereo receiver, and satellite
- Navigation and menu selection buttons - Selects among set-up, menu, and channel guide functions
- Channel and volume control - Adjusts the volume up and down and
- Spa controls - Selects among eight functions specific to the spa, such as blower, pumps and light
- Keypad - Used to enter TV channels
- VCR and DVD controls - Use to control a VCR or DVD player

Appendix

Ultimate Series Spa Lighting and Sensor Installation

Ported Spa Light (12V)

Ported spas are spas factory installed in a wooden cabinet for above ground installation. Because of this, most of these spas are ordered with a traditional 12V spa light system which requires little on-site installation. In fact the only steps necessary for installation are running two wires from the electrical port (located at the back of the spa) to the control box on the equipment skid. (Please see routing instructions below for proper installation.)

12V Light Routing

1. Locate the electrical port at the back side of the spa.
2. Locate the light wires. (Black and white wire bundle.)
3. Layout the light bundle to see if enough wire is provided to reach the control box. (Located on the equipment pack.)
4. Extend wire length if necessary to reach the control box.
5. Run light wire in conduit (generally in the same conduit as the topside control panel and temperature sensor) to the control box.
6. Connect the black and white light wires to the appropriate "12V Light location" on the terminal block inside the control box. (See Figure 28 for example)

Note: Terminal block location may vary in each control box. Always refer to the wiring diagram located on the inside cover of the control box lid for proper connection location for that system.

7. Turn on power and test light by pressing the light button on the topside control panel.

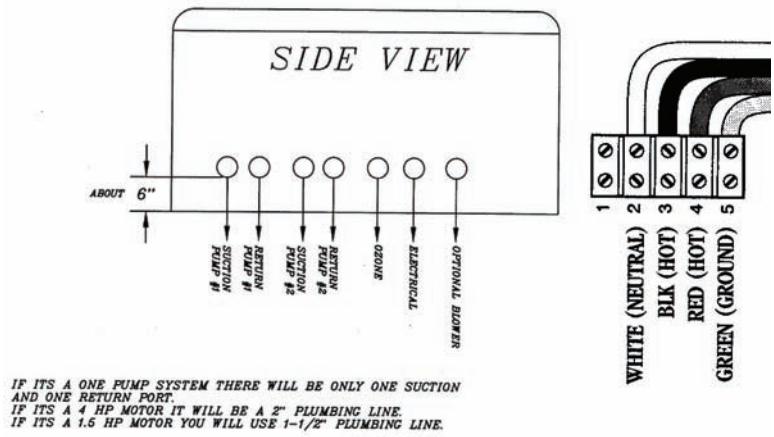


Figure 28. 12V routing instructions

Topside Control Panel and Sensor Installation

Topside control panels are factory installed on the spa shell. The next few steps to complete the installation should be performed along with installation of the temperature sensor and 12V spa light wiring (if applicable). All of these components are generally installed using the same conduit.

1. Locate the topside control panel extension loom in the control box mounted with the equipment pack. This extension loom and attached black terminal connector will be used to connect the topside control panel to the control box.
2. Connect one end of the black terminal connector to the topside control panel cable.
3. Connect the other end of the terminal connector to the extension loom (See Figure 29)

Note: This connection must be kept dry. We recommend that a water proof junction box be used in installations were moisture could penetrate this terminal connector.

4. Layout the extension loom to verify that you have enough length to reach the control box. Remember that conduit runs are not generally run in a straight line. Every bend, and up and down run consumes line length. Take this into consideration when verifying electrical and plumbing runs.
5. Connect the extension loom to the control panel location on the circuit board located inside the control box. You will also need to connect both the temperature and high limit sensors to the circuit board prior to testing. (See the temperature and high limit installation instruction on the next page for proper identification and See the wiring diagram on the inside cover of the control box for proper placement.)
6. Turn on the power supply to the spa equipment and briefly test all functions on the topside control panel to verify that both connections and extension loom are in working order before proceeding with the installation.

Note: Circuit board programming will not allow spa operation without both the temperature and high limit sensors being properly connected to the circuit board. See Temperature and High Limit installation instructions on the following pages to ensure proper connection prior to applying power and performing function testing.

7. Once topside panel operation is verified. Turn off power, disconnect the extension loom from the circuit board and GENTLY route through conduit to complete installation.

Note: This loom and its connector are not meant to withstand heavy pulling. Make sure, when routing the extension loom and temperature sensor lines through conduit, you exercise extreme caution.

8. Once properly run through the conduit repeat Steps 5 and 6 above.

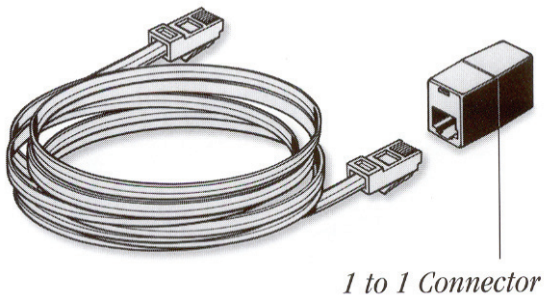


Figure 29. Terminal connector

Temperature and High Limit Sensors

The temperature sensor housing is a factory installed wall fitting generally located 18“ below water level on the front wall of the spa shell. (Near the spa light.) While the high limit sensor housing is located inside the plumbing fitting above the heat pump.

Both of these sensors are delivered inside the control box with the extension loom. Identifying and connecting the two sensors in the correct location on the circuit board is very important. Sensors located incorrectly, will cause the spa to operate incorrectly and could result in spa damage.

Identifying and Installation

The temperature sensor has a 3/8" bulb with 50' of wire length, while the the high limit sensor has a 1/4" bulb with 48" of wire length. Both of these sensors must be properly installed prior to spa operation.

Temperature Sensor Installation

Refer to Figure 30 for the following procedure.

1. Locate the temperature sensor wall fitting on the spa shell
2. Layout the temperature sensor from the sensor wall fitting to the control box to verify that the length of the sensor wire is adequate for conduit run
3. Loosen (clockwise) the small black finger nut at the end of the temperature sensor wall fitting. Do not remove. Removal will cause the water sealing o-ring to fall out, causing damage or loss.
4. Firmly press the temperature sensor into the opening at the end of the temperature sensor wall fitting.
5. Tighten the small black finger nut until snug.
6. Using spray insulating foam (Polyurethane), spray at least 6" of foam thickness covering the entire back side (installation side) of sensor and sensor wall fitting.
7. Secure sensor to topside control panel and 12V light wires (if applicable) and GENTLY route through conduit to complete installation.

Note: The sensor wires and extension loom and its connector are not meant to withstand heavy pulling. Make sure, when routing these wires through conduit, you exercise extreme caution.

8. Plug the temperature sensor into the temperature sensor location on the circuit board located inside the control box. (See the wiring diagram on the inside cover of the control box for proper placement.)
9. Follow the high limit sensor installation instructions prior to testing operation. Circuit board programming will not allow spa operation without both sensors being connected to the circuit board.

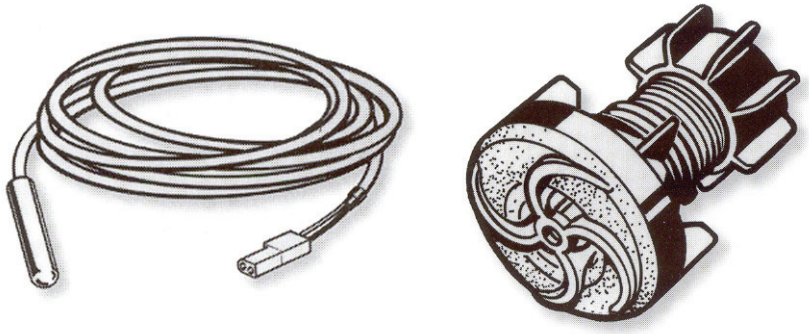


Figure 30. Temperature sensor and sensor wall fitting

High Limit Sensors

The high limit sensor housing is a factory installed plumbing fitting located on the discharge side of pump #1 (Heat Pump). Most equipment packs will have this sensor already installed for you.

Visually inspect the circuit board and plumbing fitting to verify the high limit sensor is already installed. If not, follow the installation steps below.

This sensor is delivered inside the control box with temperature sensor, and topside extension loom. Identifying and connecting the temperature and high limit sensors in the correct location on the circuit board is very important. Sensors located incorrectly, will cause the spa to operate incorrectly and could result in spa damage.

Identifying and Installation

The temperature sensor has a 3/8" bulb with 50" of wire length, while the high limit sensor has a 1/4" bulb with 48" of wire length. Both of these sensors must be properly installed prior to spa operation.

High Limit Sensor Installation

1. Locate the high limit sensor plumbing fitting located on the discharge side of pump #1 (Heat Pump).

Note: The small section of flexible conduit connecting the high limit sensor plumbing fitting to the control box.

2. Locate the high limit sensor inside the control box.
3. Firmly press the high limit sensor into the opening inside the control box through the flexible conduit into the high limit sensor plumbing fitting.
4. Plug the high limit sensor into the high limit sensor location on the circuit board located inside the control box. (See the wiring diagram on the inside cover of the control box for proper placement.)
5. Make sure that both the temperature and high limit sensor are installed correctly according to the wiring diagram listed on the inside cover of the control box.

Note: Circuit board programming will not allow spa operation without both sensors being connected to the circuit board. Verify connections prior to applying power and performing function testing.

Remote Freeze Sensor (Optional)

If you are installing outdoor equipment in cold climate, you should install a Remote Freeze Sensor. This sensor will protect remote equipment like booster pumps or heater from possible freeze damage.

Sensor Function

When this sensor reaches 40°F it will automatically turn on every pump and blower to circulate water to prevent freezing. During "Freeze Mode", the spas functions cannot be controlled. Once the sensor reaches 45°F, the spa will regain normal operation.

Remote Freeze Sensor Installation

1. Using a large wire tie strap or zip tie, secure the sensing disk to the booster pump or heater manifold at the lowest metallic point possible. (See Figure 31 for part identification and installation location)
2. Plug the other end of the freeze sensor to the "AUX FREEZE" location on the circuit board. (Location may vary by model. See wiring diagram on the inside cover of the control box)
3. Using wire tie straps, secure the "AUX FREEZE" sensor wire to the equipment to prevent damage during maintenance or servicing.

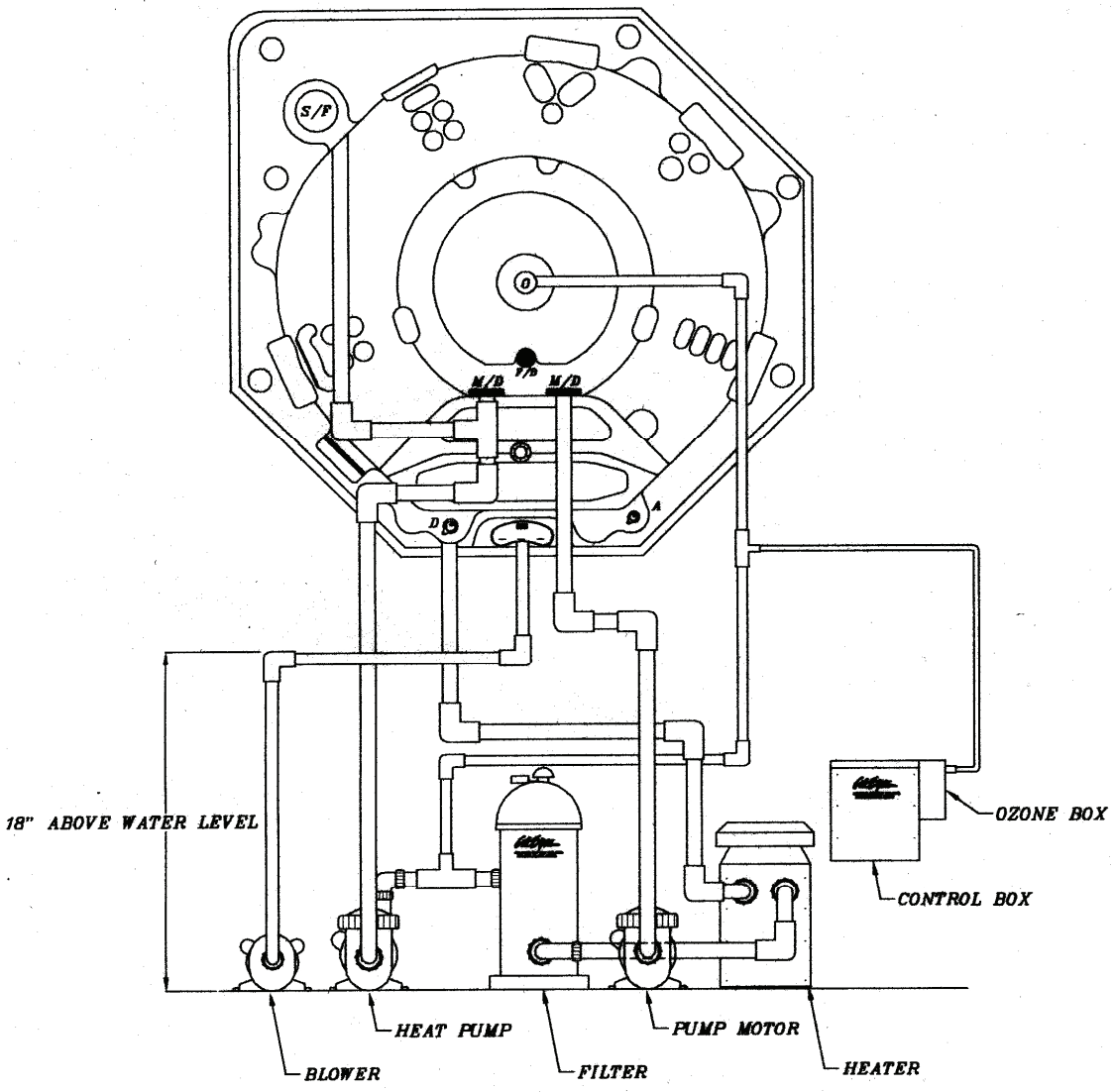


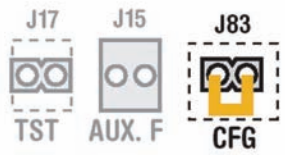
Figure 31. AUX freeze sensor locations

9800 Configuration Settings

WARNING! SHOCK HAZARD!

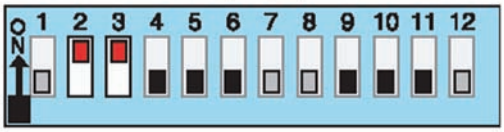
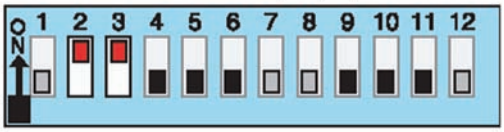
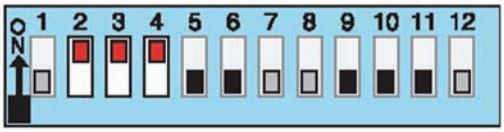
There are no user serviceable parts. DO NOT attempt service of this control system. Contact your dealer or service center for service.

DIP Switches and Jumpers



When the logic jumper is installed on J83 (CFG), configuration settings are enabled. DIP switches will then operate as shown below.

Note: Switchbank B is totally disabled.

Switchbank A configuration settings for the 9800 two pump system with TV 	A1	Test mode OFF	A7	N/A
	A2	Add 1 pump with heat	A8	N/A
	A3	Add 2 pumps with heat	A9	N/A
	A4	N/A	A10	No edit
	A5	N/A	A11	N/A
	A6	N/A	A12	Memory ON
Switchbank A configuration settings for the 9800 three-pump system 	A1	Test mode OFF	A7	N/A
	A2	Add 1 pump with heat	A8	N/A
	A3	Add 2 pumps with heat	A9	N/A
	A4	Add 3 pumps with heat	A10	No edit
	A5	N/A	A11	N/A
	A6	N/A	A12	Memory ON
Switchbank A configuration settings for the 9800 five-pump system (Infinity line) 	A1	Test mode OFF	A7	N/A
	A2	Add 1 pump with heat	A8	N/A
	A3	Add 2 pumps with heat	A9	N/A
	A4	N/A	A10	No edit
	A5	N/A	A11	N/A
	A6	N/A	A12	Memory ON

DIP Switch Key

A1	Test mode (normally off)
A2	In ON mode, add one high-speed pump (or blower) with heater
A3	In ON mode, add two high-speed pumps (or one high speed pump and blower) with heater
A4	In ON mode, add four high-speed pumps (or three high speed pumps and blower) with heater
A5—A9	N/A
A10	When switched on when spa is on, system will enter the Edit Menu for configuration settings. Do not start the spa with A10 turned on or a CFE error will occur. (CFE errors are illegal configurations such as a pump and blower set to run on the same output. The configuration must be corrected before the spa will operate.
A11	N/A
A12	Persistent memory reset (used when spaq is powering up)
Note: A2, A3, and A4 work in combination. Example: A2 and A3 in the ON position and A4 in the OFF position will allow 3 high speed pumps (or two high speed pumps and the blower) to run with the heater.	

Configuration Settings

When DIP switch A10 is turned ON while the spa is powered up and running, the system will enter the Edit menu for configuration settings.

- Press any temperature button to scroll through the list of settings shown in the table below.
- Pres JETS 1 on the main control panel to select a feature. The configuration setting will flash.
- Press any temperature button to scroll through the various configuration settings for the feature.
- Pres JETS 1 to select a configuration and return to the feature list.
- Pres TEMP to continue scrolling through the list.
- Continue until all settings are chosen.
- Turn DIP switch A10 to the OFF (down) position.

The spa will automatically reset and begin to run with the new settings.

Do NOT start up the spa with A10 turn on or the CFE error will occur. CFE errors are illegal configurations such as a pump blower set to run on the same output. The configuration must be corrected before the spa will operate.

Message	Message Description	Settings	Three pump system	Five pump system	Two pump system with TV
F1	Pump 1 in filter (w/circulation pump	**N Y** Allows P1 low to operate in filter cycles to add extra filtration **N** = normal; **Y** = Pump 1 with Circ	N	N	N
24	24-hour time	**N Y** **N** = 12-hour (am/pm); **Y** = 24-hour (military)	N	N	N
tc	Celsius	**N Y** **N** = Fahrenheit; **Y** = Celsius	N	N	N
to	Timeouts	**1 F 2 3 4 5 6** **1-6** = 10, 20, 30, 40, 50, 60 minutes; **F** = 15 minutes	F	F	F
1t	Pump 1 low timeout	**d 1 2 3 4** **d** = Use “Timeouts” value above; **1-4** = number of hours	2	2	2
Lt	Light timeout	**d 1 2 3 4** **d** = Use “Timeouts” value above; **1-4** = number of hours	4	4	4
Sc	Scrunch Panel	**N Y** **N** = Normal button positions on ML900; **Y** = Scrunch	N	N	N
ct	Circ Type	**N A 3 P** **N** = Non circ; **A** = 24-hour; **3** = 24-hour w/3°F shutoff outside filter; **P** = Acts like Pump 1 Low (filter cycles, polls, etc.)	P	P	N or P
P1	Pump 1 Speeds	**1 2** **1** = 1 speed; **2** = 2 speed	2	1	2
P2	Pump 2 Speeds	**0 1 2** **0** = Disabled; **1** = 1 speed; **2** = 2 speed	2	1	2
P3	Pump 3 Speeds	**0 1 2** **0** = Disabled; **1** = 1 speed; **2** = 2 speed	2	1	0
P4	Pump 4 Speeds	**0 1 E** **0** = Disabled; **1** = 1 speed; **E** = On/Off via External Relay	0	1	0

Message	Message Description	Settings	Three pump system	Five pump system	Two pump system with TV
P5	Pump 5 Speeds	**1 2** **1** = 1 speed; **2** = 2 speed	0	1	0
P6	Pump 6 Speeds	**1 2** **1** = 1 speed; **2** = 2 speed	0	0	0
bL	Blower Speeds	**0 1 2 3** **0** = Disabled; **1** = On/Off; **2** = 2 Speed; **3** = 3 Speed	1	1	1
Lb	Separate Spa Light Button	**N Y** (This feature only applies when using fiber optic light) **N** = No spa light button, spa light output is on with fiber; **Y** = Separate spa light button on ML900 or Aux panel	N	N	N
L1	Spa Light On / Off	**N Y** **N** = Dimmable (H, M, L) light; **Y** = On / Off light	Y	Y	Y
Fo	Fiber Optics	**N Y** **N** = Disabled; **Y** = Enabled	N	N	N
IS	Mister	**N Y** **N** = Disabled; **Y** = Enabled	N	N	N
cc	Cleanup Cycles	**N Y** **N** = Disabled; **Y** = Enabled	N	N	N
o3	Ozone Operation	**A F** **A** = Operates with Pump 1 Low or Circ Pump; **F** = Operates in Filter and Cleanup Cycles only	F	F	F
o5	Ozone Suppression	**N Y** **N** = No Suppress; **Y** = 1-hour suppress on button press	N	N	N
A1	Aux Button 1 – Pump 1	**1 2 3 4 5 6 b g** **F E o d P n A U** **1-6** = Assigns Pump Number (P1, P2, etc.; **b** = Blower: **g** = Spa Light; **F** = Fiber-Optic wheel/light; **E** = Eight Light; **o** = Option; **t** = Mister; **d** = CK Mode; **P** = CK Option; **A** = ACD Aroma; **U** = Button Disabled	1	3	1
A2	Aux Button 2 – Pump 2		2	4	2
A3	Aux Button 3 – Pump 3		3 or b	5	B
A4	Aux Button 4 – Light		E	E	E
Sr	Suppress All Reminders	**N Y** **N** = Display Reminders; **Y** = Suppress All Reminders	Y	Y	Y
rP	Check pH Reminder Period	**0 1 2 3 4 5 6 7 8 9** **0** = Off: **1** = 7 days; **2** = 14 days; **3** = 30 days; **4** = 45 days; **5** = 60 days; **6** = 90 days; **7** = 120 days; **8** = 180 days; **9** = 365 days	1	1	1
rS	Check Sanitizer Reminder Period		1	1	1
rF	Check Filter Reminder Period		3	3	3
rG	Test GFCI Reminder Period		3	3	3
rd	Drain Water Reminder Period		6	6	6
rC	Clean Cover Reminder Period		8	8	8
ro	Treat Wood Reminder Period		8	8	8
rt	Change Filter Reminder Period		9	9	9
co	C K	**N Y** **N** = Disabled: **Y** = Enabled	N	N	N
cd	ACD	**N Y** **N** = Disabled: **Y** = Enabled	N	N	N
dr	Drain Mode	**N Y** **N** = Disabled: **Y** = Enabled	N	N	N

Keeping Fit with your Cal Spa

The fitness series spas put the fun back into fitness. This comes with everything you need for a high powered, low impact, result-getting workout in total comfort and privacy. Plus you get a spa loaded with incredible therapeutic seating, variable jet massage and generous control options, and the most gorgeous cabinetry on the planet.

The fitness equipment consists of two exercise arm bars, two exercise band cords, two exercise bands and grips, and an exercise belt. This equipment attaches quickly and easily to the exercise anchors located on the spa walls.

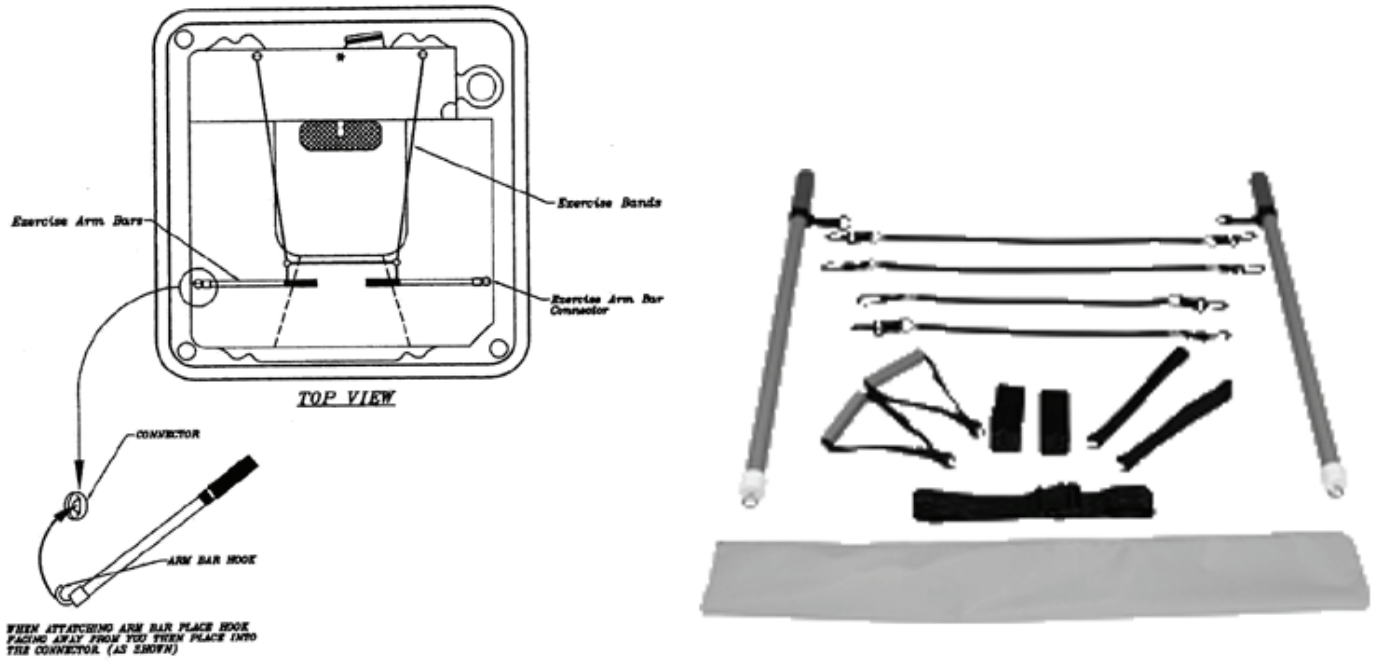

Exercise Arm Bars
Exercise Bands
Exercise Arm Bar Connector
TOP VIEW
CONNECTOR
ARM BAR HOOK
WHEN ATTACHING ARM BAR PLACE HOOK FACING AWAY FROM YOU THEN PLACE INTO THE CONNECTOR (AS SHOWN)

Figure 32. Fitness Series™ Equipment

IMPORTANT: Always consult your physician before starting any exercise activity or program. The fitness series spas feature rubber exercise bands. When stretched, these bands create a hi-tension condition. Improper use or failure to connect the exercise bands properly may cause injury. Always inspect all of the exercise equipment prior to beginning any exercise. Do not use any damaged equipment

Fitness Series™ Exercise Program

Many people have never performed resistance training and/or may not fully understand the benefits of this extremely important form of exercise for the goal of improving your health, appearance and overall confidence.

Resistance training is necessary when trying to loose body fat, maintain and improve lean muscle structure and increase energy levels while improving flexibility.

Hydrotherapy is a remarkable way of utilizing water and heating to promote health and wellness. The majority of people are turning back to natural methods of healing and health practices to improve their body externally, but most of all internally. Hydrotherapy provides specific benefits for increased blood circulation, detoxification, reduction of body fat, replenish minerals and nutrients in the body and relieve stress.

Fitness Series™ Exercise Program

20 to 30 min. session three times a week

1. Seated Row: An all around exercise that focuses on the muscles of the upper back, shoulders and arms. Using the exercise bars in a seated position with your feet stable, abs tight and lower back stable. Palms down, arms extended with elbows slightly bent. Pull towards your chest squeezing your shoulder blades to the middle back and returning slowly to the starting position.
2. Standing Chest Fly: An excellent upper body exercise that focuses on the muscles of the chest, shoulders and arms. Using the exercise grips, place palms sideways facing your body with your elbows slightly bent. Pull forward toward your body bringing hands together, squeezing and flexing chest muscles, then slowly returning to the starting position.
3. Standing Chest Press: Using the exercise grips, place your palms down with your elbows bent at 90 ˚. Press forward bringing your hands together, squeezing and flexing your chest muscles, then slowly return to the start position.
4. Standing Shoulder Press: Using the exercise grips, place your palms facing away from your body with your elbows bent at 90˚. Press upward bringing your hands together in front of you, above your head and slowly return to the start position.
5. Arm Curls: Using the exercise grips, place your hands face up with your elbows slightly bent, pull upward towards your chin squeezing and flexing your biceps then slowly return to start position.
6. Hydro Squats: Excellent for defining and firming the buttocks, thighs and legs. From a standing position, slowly sink down into the water until your buttocks is level with your knees (90˚). Squeezing your muscles tightly like sitting in a chair with abs tight and your back straight then slowly returning to standing position.
7. Hydro Leg Extensions: Sitting with your feet flat, knees bent (90˚) and abs tight. Lift your foot upwards straightening the leg while squeezing and flexing the thigh muscles and slowly lowering the foot to start position.

Important: Consult your physician before starting any exercise activity or program. The fitness series spas feature rubber exercise bands. When stretched, these bands create a hi-tension condition. Improper use or failure to connect the exercise bands properly may result in injury. Always inspect all exercise equipment prior to beginning any exercise. Do not use any damaged equipment.

Warm Water Workouts

Almost any exercise that can be done on land, including walking or jogging, can be also done in water. If you have arthritis and you're exercising in a spa or hot tub, however, you'll probably focus on range-of-motion exercises that work the toe, ankle, knee, leg, hip, hand, wrist and shoulder. The size and shape of the hot tub, of course, will determine the specific types of exercises you can do in it. Cal Spas™ would like to share some tips on the benefits of warm water therapy.

Forward Arm Reach

With both arms, reach straight in front of you. Raise your hands overhead as high as possible, keeping your elbows as straight as you can. If one arm is very weak, use your other arm to help raise it.

Elbow Bend

Start with your elbows as straight as possible, fingers pointing down. Bend your elbows and try to touch your thumbs to your shoulders. Keep your elbows close to your body. You do not have to touch your shoulders. Then relax your elbows and straighten your arms down at your sides.

Wrist Bend

Bend both of your wrists upward and then downward. You can also exercise one wrist at a time by placing your free hand, thumb out, under the exercising wrist. Hands and fingers should be relaxed.

Finger Curl

Curl your fingers into your palm to make a loose fist then straighten them out.

Ankle Circles

While seated, make large inward circles with your left foot, moving it from the ankle. Repeat circles in the opposite direction. Then repeat the exercise with your right foot.

Spread Eagle

While sitting on the edge of a bath seat, straighten one knee. While holding it straight, slowly move it out to the side. Hold it out for three seconds, then bring it back to the center and relax. Repeat these instructions with your other leg.

Replacement Parts

Adjustable and Nonadjustable Jets

Power Series

Description:	CXLW 6.5”	Journey Series	
Insert:	PLU21703400	Signature Series	
Body:	PLU21703010	Classic Series	
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	MJLW 6.5”	Journey Series	
Insert:	PLU21703401	Signature Series	
Body:	PLU21703010	Classic Series	
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	MJW 5.5”	Journey Series	
Insert:	PLU21703402	Signature Series	
Body:	PLU21703010		
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	SXW 5.5”	Journey Series	
Insert:	PLU21703403	Signature Series	
Body:	PLU21703010		
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	SJP 5”	Victory Series	
Insert:	PLU21703406		
Body:	PLU21702397 body SJP		
Gasket:	PLU21702398 Gasket		
Nut:	PLU21702400 Nut		

Description:	CXW 5.5”	Journey Series	Aqua Series
Insert:	PLU21703404	Signature Series	Galaxy Series
Body:	PLU21703010	Home Series	Ultimate Series
Gasket:	PLU21703012	Classic Series	
Nut:	PLU21703013		

Description:	SFW 5.5”	Journey Series	
Insert:	PLU21703405	Home Series	
Body:	PLU21703010	Classic Series	
Gasket:	PLU21703012	Aqua Series	
Nut:	PLU21703013	Galaxy Series	

Power Series w/Stainless Steel Esc.

Description:	CXLW 6.5” w/metal esc.	Journey Series	
Insert:	PLU21703600	Signature Series	
Body:	PLU21703010	Classic Series	
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	MJLW 6.5” w/metal esc.	Journey Series	
Insert:	PLU21703601	Signature Series	
Body:	PLU21703010	Classic Series	
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	SXRW 5.5” w/stainless steel	Journey Series	
Insert:	PLU21703602	Signature Series	
Body:	PLU21703010		
Gasket:	PLU21703012		
Nut:	PLU21703013		

Description:	CXLW 5.5” w/metal esc.	Journey Series	Aqua Series
Insert:	PLU21703603	Signature Series	Galaxy Series
Body:	PLU21703010	Home Series	Ultimate Series
Gasket:	PLU21703012	Classic Series	
Nut:	PLU21703013		

Description:	MJLW 5.5” w/metal esc.	Journey Series	
Insert:	PLU21703604	Signature Series	
Body:	PLU21703010		
Gasket:	PLU21703012		
Nut:	PLU21703013		

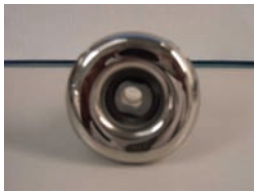
Description:	SFW 5.5” w/stainless steel	Journey Series	Aqua Series
Insert:	PLU21703605	Home Series	Galaxy Series
Body:	PLU21703010	Classic Series	
Gasket:	PLU21703012		
Nut:	PLU21703013		

Maxi Series

Description:	MFLP 4.25”	Signature Series	
Insert:	PLU21703407	Aqua Series	
Body:	PLU21702421	Galaxy Series	
Gasket:	PLU21702422		
Nut:	PLU21702423		

Description:	MFRP 3.25”	Victory Series	Classic Series
Insert:	PLU21703408	Journey Series	Aqua Series
Body:	PLU21702421	Signature Series	Galaxy Series
Gasket:	PLU21702422	Home Series	Ultimate Series
Nut:	PLU21702423	Infiniti Series	

Maxi Series With Stainless Steel Esc.



Description:	MFRW 3.25”	All spa series
Insert:	PLU21703606	
Body:	PLU21703005	
Gasket:	PLU21703012	
Nut:	PLU21703013	

Micro Series

Description:	MFP 3.25”	Victory Series	Journey Series
Insert:	PLU21703409	Journey Series	Signature Series
Body:	PLU21702420	Signature Series	Classic Series
Gasket:	PLU21702410	Classic Series	Duality Series
Nut:	PLU21702415	Duality Series	

Description:	MSRP 3”	
Insert:	PLU21703410	
Body:	PLU21702420	
Gasket:	PLU21702410	
Nut:	PLU21702415	

Micro Series With Stainless Steel Esc.

Description:	MFRW 3” w/metal esc.	Journey Series
Insert:	PLU21703607	Signature Series
Body:	PLU21703000	Classic Series
Gasket:	PLU21703002	Duality Series
Nut:	PLU21703003	

Description:	MSRW 3” w/metal esc.	Journey Series
Insert:	PLU21703411	Signature Series
Body:	PLU21703000	Classic Series
Gasket:	PLU21703002	Duality Series
Nut:	PLU21703003	

Neck Jets

Description:	MNW 2.5”	Victory Series	
Insert:	PLU21703150	Home Series	
Body:	PLU21702090	Classic Series	
Gasket:	PLU21701810	Aqua Series	
Nut:	PLU21701590	Ultimate Series	

Description:	MNW 2.75” w/metal esc.	Victory Series	Aqua Series
Insert:	PLU21703608	Home Series	Ultimate Series
Body:	PLU21702090	Classic Series	
Gasket:	PLU21701810		
Nut:	PLU21701590		

Euro Jets

Description:	Euro jet 2”	Victory Series	Aqua Series
Insert:	PLU21702702	Journey Series	Galaxy Series
Body:	PLU21702703	Signature Series	Ultimate Series
Gasket:	PLU21702704	Home Series	Duality Series
Nut:	PLU21702706	Classic Series	
Description:	Euro jet 2” w/stainless steel	Victory Series	Aqua Series
Insert:	PLU21702723	Journey Series	Galaxy Series
Body:	PLU21702703	Signature Series	Ultimate Series
Gasket:	PLU21702704	Home Series	Duality Series
Nut:	PLU21702706	Classic Series	

Tornado Jets

Description:	Power swim jet 4.75”	Signature Series
Insert:	PLU21703413	
Description:	Swim jet 3.85” w/stainless steel	Signature Series
Insert:	PLU21703609	

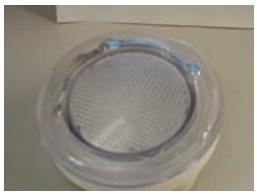
Ozone Jet

Description:	Cluster/OZ one jet 1.5”	All spa series
Insert:	PLU21700816	

Air Channels

Description:	Air Channel
Insert:	PLU21702429
Body:	PLU21702160
Nut:	PLU21702150
Description:	Air Channel w/Stainless Steel
Insert:	FIX12500050
Body:	PLU21702160
Nut:	PLU21702150

Light



Description:	5” light	All spa series
Insert:	LIT16100153	
Gasket:	PLU21800401	
Nut:	PLU21800402	

Drains

Description:	2” super high flow suction	All spa series
Insert:	PLU21400132	

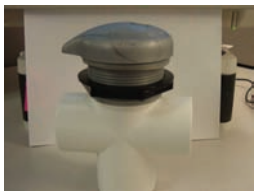
Description:	High flow suction
Insert:	PLU21400065

Description:	Bottom Drain Ozone
Body:	PLU21400195
Gasket:	PLU21400198
Nut:	PLU21400196

Description:	Lo Pro Drain
Insert:	PLU21400155

Description:	Cal Sweep™
Insert:	PLU21400730

Valves

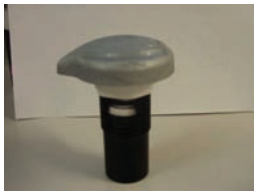


Description: 2” diverter valve
Insert: PLU21300038

Journey Series, Aqua Series, Signature Series, Galaxy Series, Home Series, Ultimate Series, Classic Series

Description: 1”diverter valve
Insert: PLU21300037

Victory Series, Aqua Series, Journey Series, Galaxy Series, Signature Series, Ultimate Series, Home Series, Duality Series, Classic Series



Description: Air control
Insert: PLU21700375

Victory Series, Classic Series, Journey Series, Aqua Series, Signature Series, Galaxy Series, Home Series, Ultimate Series

Waterfalls

Description: 8” waterfall
Insert: PLU21700618

Description: Waterfall LED
Insert: PLU21700611

Description: 8” Waterfall w/stainless steel

Pillows

Description: Quad blaster pillow
Insert: ACC01400884

Classic Series
Aqua Series

Description: Neck blaster pillow
Insert: ACC01400874

Home Series
Classic Series
Aqua Series
Galaxy Series
Ultimate Series

Description: Cancun pillow (universal urethane)
Insert: ACC01400864

Journey Series
Signature Series
Home Series
Classic Series
Aqua Series
Ultimate Series

Shell

Description	Part Number
ACRYLIC GALAXY GREEN	ACR03400112
ACRYLIC MIDNIGHT OPAL	ACR03400103
ACRYLIC OYSTER OPAL	ACR03400106
ACRYLIC REPAIR KIT PONDEROSA PINE	ACR03400118
ACRYLIC REPAIR KIT COPPER	ACR03400107
ACRYLIC REPAIR KIT ECLIPSE	ACR03400109
ACRYLIC REPAIR KIT MOONSCAPE	ACR03400113
ACRYLIC REPAIR KIT OCEAN WAVE OPAL	ACR03400101
ACRYLIC REPAIR KIT STARRY NIGHT BLUE	ACR03400111
ACRYLIC REPAIR KIT STERLING	ACR03400102
ACRYLIC REPAIR KIT TROPICAL BLUE	ACR03400114
ACRYLIC REPAIR KIT TROPICAL GREEN	ACR03400115
DANUBE GREEN	ACR34000067
MARBLE EMERALD GREEN	ACR34000124
MARBLE RUBY RED	ACR34000122
MARBLE SHELBY BLUE	ACR34000123
QUARITE REPAIR KIT DARK TWILIGHT	ACR03400030
QUARITE REPAIR KIT KALAHARI	ACR03400092
QUARITE REPAIR KIT LUNAR	ACR03400065
QUARITE REPAIR KIT ODYSSEY	ACR03400098
QUARITE REPAIR KIT SAHARA	ACR03400045
QUARITE REPAIR KIT SAPPHIRE	ACR03400050
QUARITE YUKON BLUE	ACR34000066
Pumps	
1.5 BHP 56 FRAME, SWITCHLESS, 2 SPEED DOUBLE SEAL WITH WASH OUT	PUM22000031

5.0 BHP 56 FRAME, SWITCHLESS, 2 SPEED DOUBLE SEAL WITH WASH OUT	PUM22000951
PUMP 5 HP DUALLY, DBL SEAL SWITCHLESS 2" ULTIMA	PUM22000912
PUMP ABATEMENT PAD	PUM22900210
24 HOUR FILTRATION PUMP ASSEMBLY (LAING)	PUM22000972
PUMP, 6 HP 2 SP SWITCHLESS, DBL SEAL , NO DRESS UP KIT - PARTS	PUM22000939
SPA CAL FILTRATION CIRC PUMP, ASSEMBLY	PUM22100944
1.0 HP ATS 15 FRAME PUMP WITH DOUBLE SEAL	PUM22000954

Heaters

4.0 KW HEATER MANIFOLD W/HEATER	HEA14100040
HEATER GASKET	HEA14700030
HEATER UNION 2"	HEA14700080
PRESSURE SWITCH	ELE09500200
SPLIT UNION 2"	HEA14700070
XL HEATER 5.5	HEA14100401
XL HEATER, 5.5 KW 240 CENTERED '03	HEA14100430
5.5 KW LOW FLOW XL HEATER WITH TEFLON	HEA14100123

Filters

FILTER CARTRIDGE ANTI- BACTERIAL	FIL11100190	Victory, Classic
FILTER CARTRIDGE ANTI- BACTERIAL 35 SQ'	FIL11100193	Home
FILTER CARTRIDGE ANTI- BACTERIAL 75 SQ'	FIL11100191	Journey, Signature, Home, Infinity, Classic, Aqua, Galaxy, Duality
FILTER DYNAFLO, 5"FLOATING WEIR, GREY, EXT/BTM ASSY	FIL11700139	Victory, Journey, Signature, Home, Infinity, Classic, Aqua, Galaxy, Duality
FILTER LID, DUAL 2003	FIL11300250	Victory, Journey, Signature, Home, Infinity, Classic, Aqua, Galaxy, Duality
FILTER LID, SINGLE 2003	FIL11300251	Victory, Journey, Signature, Home, Infinity, Classic, Aqua, Galaxy, Duality
FILTER LOCKING FLANGE, GREY,4 SCALLOP TRIM RING, LOW VOL. DYNA FLO II	FIL11700134	Journey, Signature, Home, Classic
FILTER SKIM DYNAFLO, TOP MT BASKET ASSY, GREY	FIL11700138	Victory, Journey, Signature, Home, Classic

Hardware

LIP GUARD GENESIS CHROME 7/16	HAR13000060	Victory Series
TRIM LOCK FACEPLATE, CAL	HAR13000011	Victory Series
TRIM LOCK FACEPLATE, "CAL" 2005	HAR13000012	Journey, Signature, Home, Infinity, Classic, Aqua, Galaxy, Ultimate, Duality

LIP GUARD 3/4 " GREY NO CHROME	HAR13000061	Journey, Signature, Home, Infinity, Classic, Aqua, Galaxy, Ultimate, Duality

Ozone

CAL ZONE QUEST w/ GREY PLU	OZO18000200	Victory, Journey, Signature, Home, Classic
OZONE CHECK VALVE	OZO18300031	All spa series
OZONE CHECK VALVE 3/8 X 3/8 B	OZO18102390	All spa series
OZONE REPLACEMENT CARTRIDGE	OZO18100020	All spa series

Lights

12 VOLT LED MULTI COLOR LIGHT UPGRADE	LIT16000145	ALL
12 VOLT LIGHT BULB	LIT16300000	ALL
BLUE LENS INSERT, JUMBO SPA LIGHT, '03 [611-4303]	LIT16100156	Journey, Signature, Home, Infiniti, Classic, Aqua, Galaxy, Ultimate, Duality
BULB, #912 12.8V 100A 12.8W, JUMBO SPA LIGHT, '03 [813-4370]	LIT16100151	Journey, Signature, Home, Infiniti, Classic, Aqua, Galaxy, Ultimate, Duality
LIGHT, LED WPAS (OPT860-8 03)	LIT16000146	Journey, Signature, Home, Infiniti, Classic, Aqua, Galaxy, Ultimate, Duality
RED LENS INSERT, JUMBO SPA LIGHT, '03 [611-4304]	LIT16100155	Journey, Signature, Home, Infiniti, Classic, Aqua, Galaxy, Ultimate, Duality

SPA COVERS

Victory Series

	BASIC			STANDARD		
	BROWN	GREY	SLATE	RUST	SMOKE	SLATE
V 100	ACC01000590	ACC01000591	ACC01000606	ACC01000592	ACC01000593	ACC01000602
V 200	ACC01001250	ACC01001251	ACC01001252	ACC01000594	ACC01000595	ACC01000603
V 300	ACC01001250	ACC01001251	ACC01001252	ACC01000594	ACC01000595	ACC01000603
V 400	ACC01000910	ACC01000911	ACC01000912	ACC01000596	ACC01000597	ACC01000604
V 500	ACC01000910	ACC01000911	ACC01000912	ACC01000596	ACC01000597	ACC01000604
V 600	ACC01000200	ACC01000201	ACC01000202	ACC01000598	ACC01000599	ACC01000605
V 700	ACC01000910	ACC01000911	ACC01000912	ACC01000596	ACC01000597	ACC01000604
V 800	ACC01000910	ACC01000911	ACC01000912	ACC01000596	ACC01000597	ACC01000604

Journey Series

	STANDARD			DELUXE		
	RUST	SMOKE	SLATE	RUST	SMOKE	SLATE
J 501	ACC01200408	ACC01200409	ACC01200510	ACU02200364	ACU02200365	ACU02200368
J 502	ACC01200406	ACC01200407	ACC01200508	ACU02200362	ACU02200363	ACU02200367
J 503	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
J 504	ACC01200404	ACC01200405	ACC01200506	ACU02200360	ACU02200361	ACU02200366
J 505	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
J 506	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
J 507	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
J 508	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266

	CUSTOM COLORS		
	TEAL	NAVY	HUNTER
J 501	ACU02200369	ACU02200370	ACU02200371
J 502	ACU02200372	ACU02200373	ACU02200374
J 503	ACU02200252	ACU02200253	ACU02200254
J 504	ACU02200375	ACU02200376	ACU02200377
J 505	ACU02200252	ACU02200253	ACU02200254
J 506	ACU02200252	ACU02200253	ACU02200254
J 507	ACU02200262	ACU02200263	ACU02200264
J 508	ACU02200262	ACU02200263	ACU02200264

Signature Series

	STANDARD			DELUXE		
	RUST	SMOKE	SLATE	RUST	SMOKE	SLATE
S 702	ACC01200460	ACC01200461	ACC01200464	ACU02200500	ACU02200501	ACU02200502
S 703	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
S 704	ACC01200400	ACC01200401	ACC01200402	ACU02200240	ACU02200241	ACU02200246
S 705	ACC01200462	ACC01200463	ACC01200465	ACU02200510	ACU02200511	ACU02200512
S 706	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
S 707	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
S 708	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
S 709	ACC01200450	ACC01200451	ACC01200452	ACU02200290	ACU02200291	ACU02200295

	CUSTOM COLORS		
	TEAL	NAVY	HUNTER
S 702	ACU02200503	ACU02200504	ACU02200505
S 703	ACU02200252	ACU02200253	ACU02200254
S 704	ACU02200247	ACU02200248	ACU02200249
S 705	ACU02200513	ACU02200514	ACU02200515
S 706	ACU02200252	ACU02200253	ACU02200254
S 707	ACU02200262	ACU02200263	ACU02200264
S 708	ACU02200262	ACU02200263	ACU02200264
S 709	ACU02200296	ACU02200297	ACU02200299

Home Series

	STANDARD			DELUXE		
	RUST	SMOKE	SLATE	RUST	SMOKE	SLATE
H 901	ACC01200560	ACC01200561	ACC01200562	ACU02001280	ACU02001281	ACU02001282
H 902	ACC01200413	ACC01200414	ACC01200415	ACU02200510	ACU02200511	ACU02200512
H 903	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
H 904	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
H 905	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
H 906	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
H 907	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
H 908	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266

	CUSTOM COLORS		
	TEAL	NAVY	HUNTER
H 901	ACU02001283	ACU02001284	ACU02001285
H 902	ACU02200513	ACU02200514	ACU02200515
H 903	ACU02200262	ACU02200263	ACU02200264
H 904	ACU02200262	ACU02200263	ACU02200264
H 905	ACU02200262	ACU02200263	ACU02200264
H 906	ACU02200262	ACU02200263	ACU02200264
H 907	ACU02200262	ACU02200263	ACU02200264
H 908	ACU02200262	ACU02200263	ACU02200264

Infinity series

	STANDARD			DELUXE		
	RUST	SMOKE	SLATE	RUST	SMOKE	SLATE
I-601	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
I-602	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
I-603	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
I-604	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266

	CUSTOM COLORS		
	TEAL	NAVY	HUNTER
I-601	ACU02200252	ACU02200253	ACU02200254
I-602	ACU02200252	ACU02200253	ACU02200254
I-603	ACU02200262	ACU02200263	ACU02200264
I-604	ACU02200262	ACU02200263	ACU02200264

Duality Series

	STANDARD			DELUXE		
	RUST	SMOKE	SLATE	RUST	SMOKE	SLATE
D-301	ACC01200408	ACC01200409	ACC01200510	ACU02200364	ACU02200365	ACU02200368
D-302	ACC01200406	ACC01200407	ACC01200508	ACU02200362	ACU02200363	ACU02200367
D-303	ACC01200460	ACC01200461	ACC01200464	ACU02200500	ACU02200501	ACU02200502
D-304	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
D-305	ACC01200400	ACC01200401	ACC01200402	ACU02200240	ACU02200241	ACU02200246
D-306	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
D-307	ACC01200410	ACC01200411	ACC01200412	ACU02200250	ACU02200251	ACU02200256
D-308	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266

	CUSTOM COLORS		
	TEAL	NAVY	HUNTER
D301	ACU02200369	ACU02200370	ACU02200371
D302	ACU02200372	ACU02200373	ACU02200374
D303	ACU02200503	ACU02200504	ACU02200505
D304	ACU02200252	ACU02200253	ACU02200254
D305	ACU02200247	ACU02200248	ACU02200249
D306	ACU02200252	ACU02200253	ACU02200254
D307	ACU02200252	ACU02200253	ACU02200254
D308	ACU02200262	ACU02200263	ACU02200264

Classic Series

	BASIC			STANDARD		
	GREY	BROWN	SLATE	RUST	SMOKE	SLATE
C BALBOA	ACC01001100	ACC01001101	ACC01001102	ACC01200370	ACC01200371	ACC01200373
C KONA	ACC01000350	ACC01000351	ACC01000352	ACC01200380	ACC01200381	ACC01200382
C OCTAGON	ACC01001400	ACC01001401	ACC01001402	ACC01200457	ACC01200458	ACC01200459
C VISTA	ACC01000400	ACC01000401	ACC01000402	ACC01200400	ACC01200401	ACC01200402
C PACIFICA	ACC01000910	ACC01000911	ACC01000912	ACC01200410	ACC01200411	ACC01200412
C TROPICAL	ACC01000910	ACC01000911	ACC01000912	ACC01200410	ACC01200411	ACC01200412
C ATLANTIC	ACC01000200	ACC01000201	ACC01000202	ACC01200420	ACC01200421	ACC01200422
C BEL AIR	ACC01000200	ACC01000201	ACC01000202	ACC01200420	ACC01200421	ACC01200422
C LOUNGER	ACC01000200	ACC01000201	ACC01000202	ACC01200420	ACC01200421	ACC01200422
C MALIBU	ACC01000200	ACC01000201	ACC01000202	ACC01200420	ACC01200421	ACC01200422
C DEL MAR	ACC01000172	ACC01000173	ACC01000174	ACC01200430	ACC01200431	ACC01200432
C NEWPORTER				ACC01200450	ACC01200451	ACC01200452
C EL GRANDE				ACC01200440	ACC01200441	ACC01200444

	DELUXE			CUSTOM COLORS		
	RUST	SMOKE	SLATE	TEAL	NAVY	HUNTER
C BALBOA	ACU02200210	ACU02200211	ACU02200216	ACU02200212	ACU02200213	ACU02200214
C KONA	ACU02200220	ACU02200221	ACU02200225	ACU02200222	ACU02200223	ACU02200224
C OCTAGON	ACU02200320	ACU02200321	ACU02200325	ACU02200322	ACU02200323	ACU02200324
C VISTA	ACU02200240	ACU02200241	ACU02200246	ACU02200242	ACU02200243	ACU02200244
C PACIFICA	ACU02200250	ACU02200251	ACU02200256	ACU02200252	ACU02200253	ACU02200254
C TROPICAL	ACU02200250	ACU02200251	ACU02200256	ACU02200252	ACU02200253	ACU02200254
C ATLANTIC	ACU02200260	ACU02200261	ACU02200266	ACU02200262	ACU02200263	ACU02200264
C BEL AIR	ACU02200260	ACU02200261	ACU02200266	ACU02200262	ACU02200263	ACU02200264
C LOUNGER	ACU02200260	ACU02200261	ACU02200266	ACU02200262	ACU02200263	ACU02200264
C MALIBU	ACU02200260	ACU02200261	ACU02200266	ACU02200262	ACU02200263	ACU02200264
C DEL MAR	ACU02200270	ACU02200271	ACU02200275	ACU02200272	ACU02200273	ACU02200274
C NEWPORTER	ACU02200290	ACU02200291	ACU02200295	ACU02200292	ACU02200293	ACU02200294
C EL GRANDE	ACU02200280	ACU02200281	ACU02200285	ACU02200282	ACU02200283	ACU02200284

Aqua Series

	STANDARD			DELUXE		
	RUST	SMOKE	SLATE	RUST	SMOKE	SLATE
SQ 92	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266
SQ 88	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266

	CUSTOM COLORS		
	TEAL	NAVY	HUNTER
SQ 92	ACU02200262	ACU02200263	ACU02200264
SQ 88	ACU02200262	ACU02200263	ACU02200264

Ultimate Series

	DELUXE			CUSTOM COLORS		
	RUST	SMOKE	SLATE	TEAL	NAVY	HUNTER
CHAMPION	ACU02001155	ACU02001159	ACU02001191	ACU02001158	ACU02001156	ACU02001157
OLYMPIAN	ACU02200300	ACU02200301	ACU02200305	ACU02200302	ACU02200303	ACU02200304
CHALLENGER						

Galaxy

	DELUXE			CUSTOM COLORS		
	RUST	SMOKE	SLATE	TEAL	NAVY	HUNTER
GX 49	ACC01200420	ACC01200421	ACC01200422	ACU02200260	ACU02200261	ACU02200266

Designer Inground

	DELUXE			CUSTOM COLORS		
	RUST	SMOKE	SLATE	TEAL	NAVY	HUNTER
DI-401	ACU02200310	ACU02200311	ACU02200315	ACU02200312	ACU02200313	ACU02200314
DI-402	ACU02200330	ACU02200331	ACU02200332	ACU02200333	ACU02200334	ACU02200335
DI-403	ACU02200260	ACU02200261	ACU02200266	ACU02200262	ACU02200263	ACU02200264
DI-404	ACU02200342	ACU02200343	ACU02200344	ACC02200345	ACC02200346	ACC02200347
DI-405	ACU02200280	ACU02200281	ACU02200285	ACU02200282	ACU02200283	ACU02200284
DI-406	ACU02200340	ACU02200341	ACU02200342	ACU02200343	ACU02200344	ACU02200345
DI-407	ACU02001155	ACU02001159	ACU02001191	ACU02001158	ACU02001156	ACU02001157

SPA CABINETS

Spa Model: Cal Wood (Standard Panels)

	Door	Front Access	Round Corner
V-100/V150	WOO27500484-R	N/A	N/A
V-200	WOO27513051-R	WOO27513049-R	WOO27504382-R
V-300	WOO27513051-R	WOO27513049-R	WOO27504382-R
V-400	WOO27513044-R	WOO27513045-R	WOO27518761-R
V-500	WOO27513044-R	WOO27513045-R	WOO27518761-R
V-600	WOO27513044-R	WOO27513048-R	WOO27518761-R
V-700	WOO27513044-R	WOO27513045-R	WOO27518761-R
V-800	WOO27513044-R	WOO27513045-R	WOO27518761-R

	Side Panel	Front Access W/Stereo	Complete Set
V-100/V150	WOO27500402-R	N/A	WOO27500403-R
V-200	WOO27513052-R	N/A	WOO27513050-R
V-300	WOO27513052-R	N/A	WOO27513050-R
V-400	WOO27513043-R	N/A	WOO27513042-R
V-500	WOO27513043-R	N/A	WOO27513042-R
V-600	WOO27513047-R	N/A	WOO27513046-R
V-700	WOO27513043-R	N/A	WOO27513042-R
V-800	WOO27513043-R	N/A	WOO27513042-R

Spa Model: Cal Select: Red (Optional Panel)

	Door	Front Access	Round Corner
V-100/V150	N/A	N/A	N/A
V-200	WOO27513343	WOO27513371	WOO27513333
V-300	WOO27513343	WOO27513371	WOO27513333
V-400	WOO27513350	WOO27513375	WOO27513329
V-500	WOO27513350	WOO27513375	WOO27513329
V-600	WOO27513350	WOO27513377	WOO27513329
V-700	WOO27513350	WOO27513375	WOO27513329
V-800	WOO27513350	WOO27513375	WOO27513329

	Side Panel	Front Access W/Stereo	Complete Set
V-100/V150	N/A	N/A	N/A
V-200	WOO27513427	N/A	WOO27517568
V-300	WOO27513427	N/A	WOO27517568
V-400	WOO27513442	N/A	WOO27517570
V-500	WOO27513442	N/A	WOO27517570
V-600	WOO27513452	N/A	WOO27517575
V-700	WOO27513442	N/A	WOO27517570
V-800	WOO27513442	N/A	WOO27517570

Spa Model: Cal Select: Gray (Optional Panel)

	Door	Front Access	Round Corner
V-100	N/A	N/A	N/A
V-200	WOO27513344	WOO27513370	WOO27513324
V-300	WOO27513344	WOO27513370	WOO27513324
V-400	WOO27513349	WOO27513374	WOO27513328
V-500	WOO27513349	WOO27513374	WOO27513328
V-600	WOO27513349	WOO27513376	WOO27513328
V-700	WOO27513349	WOO27513374	WOO27513328
V-800	WOO27513349	WOO27513374	WOO27513328

	Side Panel	Front Access W/Stereo	Complete Set
V-100	N/A	N/A	N/A
V-200	WOO27513426	N/A	WOO27517567
V-300	WOO27513426	N/A	WOO27517567
V-400	WOO27513441	N/A	WOO27517569
V-500	WOO27513441	N/A	WOO27517569
V-600	WOO27513451	N/A	WOO27517572
V-700	WOO27513441	N/A	WOO27517569
V-800	WOO27513441	N/A	WOO27517569

Spa Model: Cal Select: Smoke (Optional Panel)

	Door	Front Access	Round Corner
V-100	N/A	N/A	N/A
V-200	WOO27513301	WOO27513497	WOO27513325
V-300	WOO27513301	WOO27513497	WOO27513325
V-400	WOO27513303	WOO27513433	WOO27513306
V-500	WOO27513303	WOO27513433	WOO27513306
V-600	WOO27513303	WOO27513455	WOO27513306
V-700	WOO27513303	WOO27513433	WOO27513306
V-800	WOO27513303	WOO27513433	WOO27513306

	Side Panel	Front Access W/Stereo	Complete Set
V-100	N/A	N/A	N/A
V-200	WOO27513464	N/A	WOO27517692
V-300	WOO27513464	N/A	WOO27517692
V-400	WOO27513461	N/A	WOO27517574
V-500	WOO27513461	N/A	WOO27517574
V-600	WOO27513462	N/A	WOO27517576
V-700	WOO27513461	N/A	WOO27517574
V-800	WOO27513461	N/A	WOO27517574

Spa Model: Cal Select: Red (Standard Panel)

	Door	Front Access	Round Corner
J-501	WOO27513354	WOO27513386	WOO27513333
J-502	WOO27513347	WOO27513387	WOO27513327
J-503	WOO27513350	WOO27513375	WOO27513329
J-504	WOO27513350	WOO27513377	WOO27513329
J-505	WOO27513350	WOO27513375	WOO27513329
J-506	WOO27513350	WOO27513375	WOO27513329
J-507	WOO27513350	WOO27513377	WOO27513329
J-508	WOO27513350	WOO27513377	WOO27513329

Side Panel	Back Panel	Complete Set	
J-501	WOO27513444	WOO27513316	WOO27517558
J-502	WOO27513446	WOO27513318	WOO27517557
J-503	WOO27513442	N/A	WOO27517570
J-504	WOO27513442	WOO27513452	WOO27517561
J-505	WOO27513442	N/A	WOO27517570
J-506	WOO27513442	N/A	WOO27517570
J-507	WOO27513452	N/A	WOO27517575
J-508	WOO27513452	N/A	WOO27517554

Spa Model: Cal Select: Gray:(Standard Panel)

	Door	Front Access	Round Corner
J-501	WOO27513344	WOO27513385	WOO27513332
J-502	WOO27513348	WOO27513388	WOO27513326
J-503	WOO27513349	WOO27513374	WOO27513328
J-504	WOO27513349	WOO27513376	WOO27513328
J-505	WOO27513349	WOO27513374	WOO27513328
J-506	WOO27513349	WOO27513374	WOO27513328
J-507	WOO27513349	WOO27513376	WOO27513328
J-508	WOO27513349	WOO27513376	WOO27513328
	Side Panel	**Back Panel**	**Complete Set**
J-501	WOO27513443	WOO27513315	WOO27517556
J-502	WOO27513445	WOO27513317	WOO27517555
J-503	WOO27513441	N/A	WOO27517569
J-504	WOO27513441	WOO27513451	WOO27517559
J-505	WOO27513441	N/A	WOO27517569
J-506	WOO27513441	N/A	WOO27517569
J-507	WOO27513451	N/A	WOO27517572
J-508	WOO27513451	N/A	WOO27517550

Spa Model: Cal Select: Smoke:(Standard Panel)

	Door	Front Access	Round Corner
J-501	WOO27513301	WOO27513319	WOO27513304
J-502	WOO27513302	WOO27513321	WOO27513305
J-503	WOO27513303	WOO27513433	WOO27513306
J-504	WOO27513303	WOO27513455	WOO27513306
J-505	WOO27513303	WOO27513433	WOO27513306
J-506	WOO27513303	WOO27513433	WOO27513306
J-507	WOO27513303	WOO27513455	WOO27513306
J-508	WOO27513303	WOO27513455	WOO27513306
	Side Panel	**Back Panel**	**Complete Set**
J-501	WOO27513456	WOO27513457	WOO27517681
J-502	WOO27513459	WOO27513458	WOO27513302
J-503	WOO27513461	N/A	WOO27517574
J-504	WOO27513461	WOO27513462	WOO27517683
J-505	WOO27513461	N/A	WOO27517574
J-506	WOO27513461	N/A	WOO27517574
J-507	WOO27513462	N/A	WOO27517576
J-508	WOO27513462	N/A	WOO27517689

Spa Model: Redwood: (Standard Panel)

	Door	Front Access	Round Corner
S-702	WOO27504332-R	WOO27502087-R	WOO27504382-R
S-703	WOO27504330-R	WOO27516289-R	WOO27518760-R
S-704	WOO27504330-R	WOO27516289-R	WOO27518760-R
S-705	WOO27504330-R	WOO27516289-R	WOO27518761-R
S-706	WOO27504332-R	WOO27502087-R	WOO27504382-R
S-707	WOO27514280-R	WOO27518840-R	WOO27518760-R
S-708	WOO27514280-R	WOO27518840-R	WOO27518760-R
S-709	WOO27504330-R	WOO27518842-R	WOO27518761-R

	Side Panel	Back Panel	Complete Set
S-702	WOO27504602-R	WOO27502088-R	WOO27517581-R
S-703	WOO27516381-R	N/A	WOO27515143-R
S-704	WOO27516381-R	WOO27501642-R	WOO27517599-R
S-705	WOO27518942-R	WOO27516381-R	WOO27517491-R
S-706	WOO27504602-R	WOO27502088-R	WOO27517581-R
S-707	WOO27518940-R	N/A	WOO27515646-R
S-708	WOO27518940-R	N/A	WOO27515646-R
S-709	WOO27501642-R	WOO27518942-R	WOO27500226-R

Spa Model: Redwood: Greywash

	Door	Front Access	Round Corner
S-702	WOO27504332-G	WOO27502087-G	WOO27504382-G
S-703	WOO27504330-G	WOO27516289-G	WOO27518760-G
S-704	WOO27504330-G	WOO27516289-G	WOO27518760-G
S-705	WOO27504330-G	WOO27516289-G	WOO27518761-G
S-706	WOO27504332-G	WOO27502087-G	WOO27504382-G
S-707	WOO27514280-G	WOO27518840-G	WOO27518760-G
S-708	WOO27514280-G	WOO27518840-G	WOO27518760-G
S-709	WOO27504330-G	WOO27518842-G	WOO27518761-G

	Side Panel	Back Panel	Complete Set
S-702	WOO27504602-G	WOO27502088-G	WOO27517581-G
S-703	WOO27516381-G	N/A	WOO27515143-G
S-704	WOO27516381-G	WOO27501642-G	WOO27517599-G
S-705	WOO27518942-G	WOO27516381-G	WOO27517491-G
S-706	WOO27504602-G	WOO27502088-G	WOO27517581-G
S-707	WOO27518940-G	N/A	WOO27515646-G
S-708	WOO27518940-G	N/A	WOO27515646-G
S-709	WOO27501642-G	WOO27518942-G	WOO27500226-G

Spa Model: Cal Select: Red

	Door	Front Access	Round Corner
S-702	WOO27513342	WOO27513369	WOO27513324
S-703	WOO27513350	WOO27513375	WOO27513329
S-704	WOO27513350	WOO27513375	WOO27513329
S-705	WOO27513350	WOO27513375	WOO27513329
S-706	WOO27513350	WOO27513375	WOO27513329
S-707	WOO27513350	WOO27513377	WOO27513329
S-708	WOO27513350	WOO27513377	WOO27513329
S-709	WOO27513350	WOO27513377	WOO27513329

	Side Panel	Back Panel	Complete Set
S-702	WOO27513432	WOO27513421	WOO27517525
S-703	WOO27513442	N/A	WOO27517570
S-704	WOO27513437	WOO27513442	WOO27517686
S-705	WOO27513452	WOO27513442	WOO27517596
S-706	WOO27513442	N/A	WOO27517570
S-707	WOO27513452	N/A	WOO27517575
S-708	WOO27513452	N/A	WOO27517575
S-709	WOO27513435	WOO27513452	WOO27517529

Spa Model: Cal Select: Grey

	Door	Front Access	Round Corner
S-702	WOO27513341	WOO27513368	WOO27513324
S-703	WOO27513349	WOO27513374	WOO27513328
S-704	WOO27513349	WOO27513374	WOO27513328
S-705	WOO27513349	WOO27513374	WOO27513328
S-706	WOO27513349	WOO27513374	WOO27513328
S-707	WOO27513349	WOO27513376	WOO27513328
S-708	WOO27513349	WOO27513376	WOO27513328
S-709	WOO27513349	WOO27513376	WOO27513328

	Side Panel	Back Panel	Complete Set
S-702	WOO27513431	WOO27513419	WOO27517512
S-703	WOO27513441	N/A	WOO27517569
S-704		WOO27513441	WOO27517687
S-705	WOO27513451	WOO27513441	WOO27517597
S-706	WOO27513441	N/A	WOO27517569
S-707	WOO27513451	N/A	WOO27517572
S-708	WOO27513451	N/A	WOO27517572
S-709	WOO27513434	WOO27513451	WOO27517516

Spa Model: Cal Select: Smoke

	Door	Front Access	Round Corner
S-702	WOO27513490	WOO27513495	WOO27513304
S-703	WOO27513303	WOO27513433	WOO27513306
S-704	WOO27513303	WOO27513433	WOO27513306
S-705	WOO27513303	WOO27513433	WOO27513306
S-706	WOO27513303	WOO27513433	WOO27513306
S-707	WOO27513303	WOO27513455	WOO27513306
S-708	WOO27513303	WOO27513455	WOO27513306
S-709	WOO27513303	WOO27513455	WOO27513306

	Side Panel	Back Panel	Complete Set
S-702	WOO27513485	WOO27513486	WOO27517587
S-703	WOO27513461	N/A	WOO27517574
S-704	WOO27513463	WOO27513461	WOO27517688
S-705	WOO27513462	WOO27513461	WOO27517598
S-706	WOO27513461	N/A	WOO27517574
S-707	WOO27513462	N/A	WOO27517576
S-708	WOO27513462	N/A	WOO27517576
S-709	WOO27513487	WOO27513462	WOO27517585

Spa Model: Cal Select: Red

	Door	Front Access	Round Corner
H-901-1	WOO27513586	WOO27513690	WOO27513588
H-902	WOO27513350	WOO27513375	WOO27513329
H-903	WOO27513350	WOO27513377	WOO27513329
H-904	WOO27513350	WOO27513377	WOO27513329
H-905	WOO27513350	WOO27513377	WOO27513329
H-906	WOO27513350	WOO27513377	WOO27513329
H-907	WOO27513350	WOO27513377	WOO27513329
H-908	WOO27513350	WOO27513377	WOO27513329

	Side Panel	Back Panel	Complete Set
H-901-1	WOO27513587	WOO27513589	WOO27513595
H-902	WOO27513452	WOO27513442	WOO27517596
H-903	WOO27513452	N/A	WOO27517575
H-904	WOO27513452	N/A	WOO27517575
H-905	WOO27513452	N/A	WOO27517575
H-906	WOO27513452	N/A	WOO27517575
H-907	WOO27513452	N/A	WOO27517575
H-908	WOO27513452	N/A	WOO27517575

Spa Model: Cal Select: Grey

	Door	Front Access	Round Corner
H-901-1	WOO27513591	WOO27513691	WOO27513593
H-902	WOO27513349	WOO27513374	WOO27513328
H-903	WOO27513349	WOO27513376	WOO27513328
H-904	WOO27513349	WOO27513376	WOO27513328
H-905	WOO27513349	WOO27513376	WOO27513328
H-906	WOO27513349	WOO27513376	WOO27513328
H-907	WOO27513349	WOO27513376	WOO27513328
H-908	WOO27513349	WOO27513376	WOO27513328

	Side Panel	Back Panel	Complete Set
H-901-1	WOO27513592	WOO27513594	WOO27513590
H-902	WOO27513451	WOO27513441	WOO27517597
H-903	WOO27513451	N/A	WOO27517572
H-904	WOO27513451	N/A	WOO27517572
H-905	WOO27513451	N/A	WOO27517572
H-906	WOO27513451	N/A	WOO27517572
H-907	WOO27513451	N/A	WOO27517572
H-908	WOO27513451	N/A	WOO27517572

Spa Model: Cal Select: Smoke

	Door	Front Access	Round Corner
H-901-1	WOO27513596	WOO27513692	WOO27513598
H-902	WOO27513303	WOO27513433	WOO27513306
H-903	WOO27513303	WOO27513455	WOO27513306
H-904	WOO27513303	WOO27513455	WOO27513306
H-905	WOO27513303	WOO27513455	WOO27513306
H-906	WOO27513303	WOO27513455	WOO27513306
H-907	WOO27513303	WOO27513455	WOO27513306
H-908	WOO27513303	WOO27513455	WOO27513306

	Side Panel	Back Panel	Complete Set
H-901-1	WOO27513597	WOO27513599	WOO27513595
H-902	WOO27513462	WOO27513461	WOO27517598
H-903	WOO27513462	N/A	WOO27517576
H-904	WOO27513462	N/A	WOO27517576
H-905	WOO27513462	N/A	WOO27517576
H-906	WOO27513462	N/A	WOO27517576
H-907	WOO27513462	N/A	WOO27517576
H-908	WOO27513462	N/A	WOO27517576

Spa Model: Redwood

	Door	Front Access	Round Corner
D-301	WOO27504322-R	WOO27519801-R	WOO27519802-R
D-302	WOO27519811-R	WOO27519812-R	WOO27519813-R
D-303	WOO27504332-R	WOO27502087-R	WOO27504382-R
D-304	WOO27504330-R	WOO27516289-R	WOO27518760-R
D-305	WOO27504330-R	WOO27516289-R	WOO27518760-R
D-306	WOO27504332-R	WOO27502087-R	WOO27504382-R
D-307	WOO27504332-R	WOO27502087-R	WOO27504382-R
D-308	WOO27514280-R	WOO27518840-R	WOO27518760-R

	Side Panel	Back Panel	Complete Set
D-301	WOO27519803-R	WOO27519804-R	WOO27519800-R
D-302	WOO27519814-R	WOO27519815-R	WOO27519810-R
D-303	WOO27504602-R	WOO27502088-R	WOO27517581-R
D-304	WOO27516381-R	N/A	WOO27515143-R
D-305	WOO27501642-R	WOO27516381-R	WOO27517599-R
D-306	WOO27504602-R	WOO27502088-R	WOO27517581-R
D-307	WOO27504602-R	WOO27502088-R	WOO27517581-R
D-308	WOO27518940-R	N/A	WOO27515646-R

Spa Model: Redwood: Greywash

	Door	Front Access	Round Corner
D-301	WOO27504322-G	WOO27519801-G	WOO27519802-G
D-302	WOO27519811-G	WOO27519812-G	WOO27519813-G
D-303	WOO27504332-G	WOO27502087-G	WOO27504382-G
D-304	WOO27504330-G	WOO27516289-G	WOO27518760-G
D-305	WOO27504330-G	WOO27516289-G	WOO27518760-G
D-306	WOO27504332-G	WOO27502087-G	WOO27504382-G
D-307	WOO27504332-G	WOO27502087-G	WOO27504382-G
D-308	WOO27514280-G	WOO27518840-G	WOO27518760-G

	Side Panel	Back Panel	Complete Set
D-301	WOO27519803-G	WOO27519804-G	WOO27519800-G
D-302	WOO27519814-G	WOO27519815-G	WOO27519810-G
D-303	WOO27504602-G	WOO27502088-G	WOO27517581-G
D-304	WOO27516381-G	N/A	WOO27515143-G
D-305	WOO27501642-G	WOO27516381-G	WOO27517599-G
D-306	WOO27504602-G	WOO27502088-G	WOO27517581-G
D-307	WOO27504602-G	WOO27502088-G	WOO27517581-G
D-308	WOO27518940-G	N/A	WOO27515646-G

Spa Model: Cal Select : Red

	Door	Front Access	Round Corner
D-301	WOO27513354	WOO27513386	WOO27513333
D-302	WOO27513347	WOO27513387	WOO27513327
D-303	WOO27513342	WOO27513369	WOO27513324
D-304	WOO27513350	WOO27513375	WOO27513329
D-305	WOO27513350	WOO27513375	WOO27513329
D-306	WOO27513350	WOO27513375	WOO27513329
D-307	WOO27513350	WOO27513375	WOO27513329
D-308	WOO27513350	WOO27513377	WOO27513329

	Side Panel	Back Panel	Complete Set
D-301	WOO27513444	WOO27513316	WOO27517558
D-302	WOO27513446	WOO27513318	WOO27517557
D-303	WOO27513432	WOO27513421	WOO27517525
D-304	WOO27513442	WOO27513437	WOO27517551
D-305	WOO27513437	WOO27513442	WOO27517686
D-306	WOO27513442	N/A	WOO27517570
D-307	WOO27513442	N/A	WOO27517570
D-308	WOO27513452	N/A	WOO27517575

Spa Model: Cal Select : Grey

	Door	Front Access	Round Corner
D-301	WOO27513344	WOO27513385	WOO27513332
D-302	WOO27513348	WOO27513388	WOO27513326
D-303	WOO27513341	WOO27513368	WOO27513324
D-304	WOO27513349	WOO27513374	WOO27513328
D-305	WOO27513349	WOO27513374	WOO27513328
D-306	WOO27513349	WOO27513374	WOO27513328
D-307	WOO27513349	WOO27513374	WOO27513328
D-308	WOO27513349	WOO27513376	WOO27513328

	Side Panel	Back Panel	Complete Set
D-301	WOO27513443	WOO27513315	WOO27517556
D-302	WOO27513445	WOO27513317	WOO27517555
D-303	WOO27513431	WOO27513419	WOO27517512
D-304	WOO27513441	N/A	WOO27517569
D-305	WOO27513436	WOO27513441	WOO27517687
D-306	WOO27513441	N/A	WOO27517569
D-307	WOO27513441	N/A	WOO27517569
D-308	WOO27513451	N/A	WOO27517572

Spa Model: Cal Select : Smoke

	Door	Front Access	Round Corner
D-301	WOO27513301	WOO27513319	WOO27513304
D-302	WOO27513302	WOO27513321	WOO27513305
D-303	WOO27513490	WOO27513495	WOO27513304
D-304	WOO27513303	WOO27513433	WOO27513306
D-305	WOO27513303	WOO27513433	WOO27513306
D-306	WOO27513303	WOO27513433	WOO27513306
D-307	WOO27513303	WOO27513433	WOO27513306
D-308	WOO27513303	WOO27513455	WOO27513306

	Side Panel	Back Panel	Complete Set
D-301	WOO27513456	WOO27513457	WOO27517681
D-302	WOO27513459	WOO27513458	WOO27513302
D-303	WOO27513485	WOO27513486	WOO27517587
D-304	WOO27513461	N/A	WOO27517574
D-305	WOO27513463	WOO27513461	WOO27517688
D-306	WOO27513461	N/A	WOO27517574
D-307	WOO27513461	N/A	WOO27517574
D-308	WOO27513462	N/A	WOO27517576

Spa Model: Redwood

	Door	Front Access	Round Corner
I-601	WOO27504330-R	WOO27516289-R	WOO27518760-R
I-602	WOO27504330-R	WOO27516289-R	WOO27518760-R
I-603	WOO27504330-R	WOO27518840-R	WOO27518760-R
I-604	WOO27504330-R	WOO27518840-R	WOO27518760-R

	Side Panel	Back Panel	Complete Set
I-601	WOO27516381-R	N/A	WOO27515143-R
I-602	WOO27516381-R	N/A	WOO27515143-R
I-603	WOO27518940-R	N/A	WOO27515646-R
I-604	WOO27518940-R	N/A	WOO27515646-R

Spa Model: Redwood: Greywash

	Door	Front Access	Round Corner
I-601	WOO27504330-G	WOO27516289-G	WOO27518760-G
I-602	WOO27504330-G	WOO27516289-G	WOO27518760-G
I-603	WOO27504330-G	WOO27518840-G	WOO27518760-G
I-604	WOO27504330-G	WOO27518840-G	WOO27518760-G

	Side Panel	Back Panel	Complete Set
I-601	WOO27516381-G	N/A	WOO27515143-G
I-602	WOO27516381-G	N/A	WOO27515143-G
I-603	WOO27518940-G	N/A	WOO27515646-G
I-604	WOO27518940-G	N/A	WOO27515646-G

Spa Model: Cal Select: Red

	Door	Front Access	Round Corner
I-601	WOO27513350	WOO27513375	WOO27513329
I-602	WOO27513350	WOO27513375	WOO27513329
I-603	WOO27513350	WOO27513377	WOO27513329
I-604	WOO27513350	WOO27513377	WOO27513329

	Side Panel	Back Panel	Complete Set
I-601	WOO27513442	N/A	WOO27517570
I-602	WOO27513442	N/A	WOO27517570
I-603	WOO27513452	N/A	WOO27517575
I-604	WOO27513452	N/A	WOO27517575

Spa Model: Cal Select: Grey

	Door	Front Access	Round Corner
I-601	WOO27513349	WOO27513374	WOO27513328
I-602	WOO27513349	WOO27513374	WOO27513328
I-603	WOO27513349	WOO27513376	WOO27513328
I-604	WOO27513349	WOO27513376	WOO27513328

	Side Panel	Back Panel	Complete Set
I-601	WOO27513441	N/A	WOO27517569
I-602	WOO27513441	N/A	WOO27517569
I-603	WOO27513451	N/A	WOO27517572
I-604	WOO27513451	N/A	WOO27517572

Spa Model: Cal Select: Smoke

	Door	Front Access	Round Corner
I-601	WOO27513303	WOO27513433	WOO27513306
I-602	WOO27513303	WOO27513433	WOO27513306
I-603	WOO27513303	WOO27513455	WOO27513306
I-604	WOO27513303	WOO27513455	WOO27513306

	Side Panel	Back Panel	Complete Set
I-601	WOO27513461	N/A	WOO27517574
I-602	WOO27513461	N/A	WOO27517574
I-603	WOO27513462	N/A	WOO27517576
I-604	WOO27513462	N/A	WOO27517576

Spa Model: Stone Cabinet : Gold

	Front / Side	Round Corner	Complete Set
I-601	N/A	N/A	N/A
I-602	N/A	N/A	N/A
I-603	WOO27519200	WOO27519210	WOO27519208
I-604	WOO27519200	WOO27519210	WOO27519208

Spa Model: Stone Cabinet : Sable

	Front / Side	Round Corner	Complete Set
I-601	N/A	N/A	N/A
I-602	N/A	N/A	N/A
I-603	WOO27519201	WOO27519211	WOO27519209
I-604	WOO27519201	WOO27519211	WOO27519209

Spa Model: Cal Wood (Red Stained)

	Door	Front Access	Round Corner
CB-15	WOO27513054-R	WOO27513055-R	WOO27504382-R
CK-15	WOO27513051-R	WOO27513203-R	WOO27504382-R
CO-15	WOO27500486-R	WOO27500487-R	N/A

	Side Panel	Back Panel	Complete Set	Molding
CB-15	WOO27513056-R	WOO27513057-R	WOO27513053-R	
CK-15	WOO27513204-R	WOO27513202-R	WOO27500405-R	
	WOO27513205-R	WOO27513207-R		
CO-15	WOO27500485-R	N/A	WOO27500404-R	

Spa Model: Redwood

	Door	Front Access	Round Corner
CB-15	WOO27504336-R	WOO27502922-R	WOO27504382-R
CK-15	WOO27504333-R	WOO27504402-R	WOO27504382-R
CO-15	WOO27500260R		N/A

	Side Panel	Back Panel	Complete Set	Molding
CB-15	WOO27502962-R	WOO27502782-R	WOO27517690-R	
CK-15	WOO27504662-R	WOO27504602-R	WOO27504602-R	
	WOO27504642	WOO27504622-R		
CO-15	WOO27500400-R	N/A	WOO27500342-R	

Spa Model: Redwood : Greywash

	Door	Front Access	Round Corner	
CB-15	WOO27504336-G	WOO27502922-G	WOO27504382-G	
CK-15	WOO27504333-G	WOO27504402-G	WOO27504382-G	
CO-15	WOO27500400-G		N/A	
	Side Panel	**Back Panel**	**Complete Set**	**Molding**
CB-15	WOO27502962-G	WOO27502782-G	WOO27517690-G	
CK-15	WOO27504662-G	WOO27504602-G	WOO27504602-G	
	WOO27504642-G	WOO27504622-G		
CO-15	WOO27500400-G	N/A	WOO27500342-G	

Spa Model: Cal Select: Red

	Door	Front Access	Round Corner	
CB-15	WOO27513342	WOO27513363	WOO27513324	
CK-15	WOO27513343	WOO27513367	WOO27513333	
CO-15	WOO27513491	WOO27513581	N/A	
	Side Panel	**Back Panel**	**Complete Set**	**Molding**
CB-15	WOO27513428	WOO27513310	WOO27517523	
CK-15	WOO27513414	WOO27513432	WOO27517528	
	WOO27513418	WOO27513425		
CO-15	WOO27513474	N/A	WOO27500351	

Spa Model: Cal Select: Grey

	Door	Front Access	Round Corner	
CB-15	WOO27513341	WOO27513362	WOO27513324	
CK-15	WOO27513344	WOO27513366	WOO27513324	
CO-15	WOO27513492	WOO27513582	N/A	
	Side Panel	**Back Panel**	**Complete Set**	**Molding**
CB-15	WOO27513429	WOO27513309	WOO27517510	
CK-15	WOO27513413	WOO27513431	WOO27517515	
	WOO27513417	WOO27513424		
CO-15	WOO27513475	N/A	WOO27500352	

Spa Model: Cal Select: Smoke

	Door	Front Access	Round Corner	
CB-15	WOO27513490	WOO27513496	WOO27513304	
CK-15	WOO27513301	WOO27513495	WOO27513304	
CO-15	WOO27513493	WOO27513583	N/A	
	Side Panel	**Back Panel**	**Complete Set**	**Molding**
CB-15	WOO27513488	WOO27513489	WOO27517562	
CK-15	WOO27513483	WOO27513485	WOO27517579	
	WOO27513482	WOO27513481		
CO-15	WOO27513583	N/A	WOO27500353	

Spa Model: Redwood

	Door	Front Access	Round Corner	
CP-22	WOO27504330-R	WOO27516289-R	WOO27518760-R	
CT-22	WOO27504330-R	WOO27516289-R	WOO27518760-R	
CV-22	WOO27504330-R	WOO27501562-R	WOO27518761-R	
CA-22	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CBA-22	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CD-22	WOO27504334-R	WOO27518821-R	WOO27518741-R	
CL-22	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CM-22	WOO27504330-R	WOO27518840-R	WOO27518760-R	

	Side Panel	Back Panel	Complete Set	
CP-22	WOO27516381-R	N/A	WOO27515143-R	
CT-22	WOO27516381-R	N/A	WOO27515143-R	
CV-22	WOO27516381-R	WOO27501642-R	WOO27504203-R	
CA-22	WOO27518940-R	N/A	WOO27515646-R	
CBA-22	WOO27518940-R	N/A	WOO27515646-R	
CD-22	WOO27518921-R	N/A	WOO27504356-R	w/ top rail
CL-22	WOO27518940-R	N/A	WOO27515646-R	
CM-22	WOO27518940-R	N/A	WOO27515646-R	

Spa Model: Redwood : Greywash

	Door	Front Access	Round Corner	
CP-22	WOO27504330-G	WOO27516289-G	WOO27518760-G	
CT-22	WOO27504330-G	WOO27516289-G	WOO27518760-G	
CV-22	WOO27504330-G	WOO27501562-G	WOO27518761-G	
CA-22	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CBA-22	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CD-22	WOO27504334-G	WOO27518821-G	WOO27518741-G	
CL-22	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CM-22	WOO27504330-G	WOO27518840-G	WOO27518760-G	

	Side Panel	Back Panel	Complete Set	
CP-22	WOO27516381-G	N/A	WOO27515143-G	
CT-22	WOO27516381-G	N/A	WOO27515143-G	
CV-22	WOO27516381-G	WOO27501642-G	WOO27504203-G	
CA-22	WOO27518940-G	N/A	WOO27515646-G	
CBA-22	WOO27518940-G	N/A	WOO27515646-G	
CD-22	WOO27518921-G	N/A	WOO27504356-G	w/ top rail
CL-22	WOO27518940-G	N/A	WOO27515646-G	
CM-22	WOO27518940-G	N/A	WOO27515646-G	

Spa Model: Cal Select : Red

	Door	Front Access	Round Corner
CP-22	WOO27513350	WOO27513375	WOO27513329
CT-22	WOO27513350	WOO27513375	WOO27513329
CV-22	WOO27513350	WOO27513379	WOO27513329
CA-22	WOO27513350	WOO27513377	WOO27513329
CBA-22	WOO27513350	WOO27513377	WOO27513329
CD-22	WOO27513356	WOO27513392	WOO27513335
CL-22	WOO27513350	WOO27513377	WOO27513329
CM-22	WOO27513350	WOO27513377	WOO27513329

	Side Panel	Back Panel	Complete Set	
CP-22	WOO27513442	N/A	WOO27517570	
CT-22	WOO27513442	N/A	WOO27517570	
CV-22	WOO27513442	WOO27513437	WOO27517534	
CA-22	WOO27513452	N/A	WOO27517575	
CBA-22	WOO27513452	N/A	WOO27517575	
CD-22	WOO27513454	N/A	WOO27517539	W/ TOP RAIL
CL-22	WOO27513452	N/A	WOO27517575	
CM-22	WOO27513452	N/A	WOO27517575	

Spa Model: Cal Select : Grey

	Door	Front Access	Round Corner
CP-22	WOO27513349	WOO27513374	WOO27513328
CT-22	WOO27513349	WOO27513374	WOO27513328
CV-22	WOO27513349	WOO27513378	WOO27513328
CA-22	WOO27513349	WOO27513376	WOO27513328
CBA-22	WOO27513349	WOO27513376	WOO27513328
CD-22	WOO27513355	WOO27513391	WOO27513334
CL-22	WOO27513349	WOO27513376	WOO27513328
CM-22	WOO27513349	WOO27513376	WOO27513328

	Side Panel	Back Panel	Complete Set	
CP-22	WOO27513441	N/A	WOO27517569	
CT-22	WOO27513441	N/A	WOO27517569	
CV-22	WOO27513441	WOO27513436	WOO27517522	
CA-22	WOO27513451	N/A	WOO27517572	
CBA-22	WOO27513451	N/A	WOO27517572	
CD-22	WOO27513453	N/A	WOO27517536	W/ TOP RAIL
CL-22	WOO27513451	N/A	WOO27517572	
CM-22	WOO27513451	N/A	WOO27517572	

Spa Model: Cal Select : Smoke

	Door	Front Access	Round Corner
CP-22	WOO27513303	WOO27513433	WOO27513306
CT-22	WOO27513303	WOO27513433	WOO27513306
CV-22	WOO27513303	WOO27513430	WOO27513306
CA-22	WOO27513303	WOO27513455	WOO27513306
CBA-22	WOO27513303	WOO27513455	WOO27513306
CD-22	WOO27513470	WOO27513471	WOO27513472
CL-22	WOO27513303	WOO27513455	WOO27513306
CM-22	WOO27513303	WOO27513455	WOO27513306

	Side Panel	Back Panel	Complete Set	
CP-22	WOO27513461	N/A	WOO27517574	
CT-22	WOO27513461	N/A	WOO27517574	
CV-22	WOO27513461	WOO27513463	WOO27517588	
CA-22	WOO27513462	N/A	WOO27517576	
CBA-22	WOO27513462	N/A	WOO27517576	
CD-22	WOO27513473	N/A	WOO27517496	W/ TOP RAIL
CL-22	WOO27513462	N/A	WOO27517576	
CM-22	WOO27513462	N/A	WOO27517576	

Spa Model: Stone cabinet : Gold

	Side Panel	Round Corner	Complete Set
CP-22	N/A	N/A	N/A
CT-22	N/A	N/A	N/A
CV-22	N/A	N/A	N/A
CA-22	WOO27519200	WOO27519210	WO27519208
CBA-22	WOO27519200	WOO27519210	WO27519208
CD-22	WOO27519200	WOO27519210	WO27519208
CL-22	WOO27519200	WOO27519210	WO27519208
CM-22	WOO27519200	WOO27519210	WO27519208

Spa Model: Stone Cabinet : Sable

	Side Panel	Round Corner	Complete Set
CP-22	N/A	N/A	N/A
CT-22	N/A	N/A	N/A
CV-22	N/A	N/A	N/A
CA-22	WOO27519201	WOO27519211	WO27519209
CBA-22	WOO27519201	WOO27519211	WO27519209
CD-22	WOO27519201	WOO27519211	WO27519209
CL-22	WOO27519201	WOO27519211	WO27519209
CM-22	WOO27519201	WOO27519211	WO27519209

Spa Model: Redwood

	Door	Front Access	Round Corner	
CP-36	WOO27504330-R	WOO27516289-R	WOO27518760-R	
CT-36	WOO27504330-R	WOO27516289-R	WOO27518760-R	
CA-36	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CBA-36	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CD-36	WOO27504334-R	WOO27518821-R	WOO27518741-R	
CL-36	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CM-36	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CN-36	WOO27504330-R	WOO27518842-R	WOO27518761-R	
CE-36	WOO27504334-R	WOO27518821-R	WOO27518741-R	
	Side Panel	**Back Panel**	**Complete Set**	
CP-36	WOO27516381-R	N/A	WOO27515143-R	
CT-36	WOO27516381-R	N/A	WOO27515143-R	
CA-36	WOO27518940-R	N/A	WOO27515646-R	
CBA-36	WOO27518940-R	N/A	WOO27515646-R	
CD-36	WOO27518921-R	N/A	WOO27504356-R	W/ TOP RAIL
CL-36	WOO27518940-R	N/A	WOO27515646-R	
CM-36	WOO27518940-R	N/A	WOO27515646-R	
CN-36	WOO27501642-R WOO27501643-R	WOO27518940-R	WOO27500226-R	
CE-36	WOO27501622-R WOO27501630-R	WOO27518921-R	WOO27517590-R	W/ TOP RAIL

Spa Model: Redwood : Greywash

	Door	Front Access	Round Corner	
CP-36	WOO27504330-G	WOO27516289-G	WOO27518760-G	
CT-36	WOO27504330-G	WOO27516289-G	WOO27518760-G	
CA-36	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CBA-36	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CD-36	WOO27504334-G	WOO27518821-G	WOO27518741-G	
CL-36	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CM-36	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CN-36	WOO27504330-G	WOO27518842-G	WOO27518761-G	
CE-36	WOO27504334-G	WOO27518821-G	WOO27518741-G	

	Side Panel	Back Panel	Complete Set	
CP-36	WOO27516381-G	N/A	WOO27515143-G	
CT-36	WOO27516381-G	N/A	WOO27515143-G	
CA-36	WOO27518940-G	N/A	WOO27515646-G	
CBA-36	WOO27518940-G	N/A	WOO27515646-G	
CD-36	WOO27518921-G	N/A	WOO27504356-G	W/ TOP RAIL
CL-36	WOO27518940-G	N/A	WOO27515646-G	
CM-36	WOO27518940-G	N/A	WOO27515646-G	
CN-36	WOO27501642-G WOO27501643-G	WOO27518940-G	WOO27500226-G	
CE-36	WOO27501622-G WOO27501630-G	WOO27518921-G	WOO27517590-G	W/ TOP RAIL

Spa Model: Cal Select : Red

	Door	Front Access	Round Corner	
CP-36	WOO27513350	WOO27513375	WOO27513329	
CT-36	WOO27513350	WOO27513375	WOO27513329	
CA-36	WOO27513350	WOO27513377	WOO27513329	
CBA-36	WOO27513350	WOO27513377	WOO27513329	
CD-36	WOO27513356	WOO27513392	WOO27513335	
CL-36	WOO27513350	WOO27513377	WOO27513329	
CM-36	WOO27513350	WOO27513377	WOO27513329	
CN-36	WOO27513350	WOO27513377	WOO27513329	
CE-36	WOO27513356	WOO27513392	WOO27513335	

	Side Panel	Back Panel	Complete Set	
CP-36	WOO27513442	N/A	WOO27517570	
CT-36	WOO27513442	N/A	WOO27517570	
CA-36	WOO27513452	N/A	WOO27517575	
CBA-36	WOO27513452	N/A	WOO27517575	
CD-36	WOO27513454	N/A	WOO27517539	W/ TOP RAIL
CL-36	WOO27513452	N/A	WOO27517575	
CM-36	WOO27513452	N/A	WOO27517575	
CN-36	WOO27513435	WOO27513452	WOO27517529	
CE-36	WOO27513312	WOO27513454	WOO27517544	W/ TOP RAIL

Spa Model: Cal Select : Grey

	Door	Front Access	Round Corner	
CP-36	WOO27513349	WOO27513374	WOO27513328	
CT-36	WOO27513349	WOO27513374	WOO27513328	
CA-36	WOO27513349	WOO27513376	WOO27513328	
CBA-36	WOO27513349	WOO27513376	WOO27513328	
CD-36	WOO27513355	WOO27513391	WOO27513334	
CL-36	WOO27513349	WOO27513376	WOO27513328	
CM-36	WOO27513349	WOO27513376	WOO27513328	
CN-36	WOO27513349	WOO27513376	WOO27513328	
CE-36	WOO27513355	WOO27513391	WOO27513334	
	Side Panel	**Back Panel**	**Complete Set**	
CP-36	WOO27513441	N/A	WOO27517569	
CT-36	WOO27513441	N/A	WOO27517569	
CA-36	WOO27513451	N/A	WOO27517572	
CBA-36	WOO27513451	N/A	WOO27517572	
CD-36	WOO27513453	N/A	WOO27517536	W/ TOP RAIL
CL-36	WOO27513451	N/A	WOO27517572	
CM-36	WOO27513451	N/A	WOO27517572	
CN-36	WOO27513434	WOO27513451	WOO27517516	
CE-36	WOO27513311	WOO27513453	WOO27517506	w/ top rail

Spa Model: Cal Select : Smoke

	Door	Front Access	Round Corner	
CP-36	WOO27513303	WOO27513433	WOO27513306	
CT-36	WOO27513303	WOO27513433	WOO27513306	
CA-36	WOO27513303	WOO27513455	WOO27513306	
CBA-36	WOO27513303	WOO27513455	WOO27513306	
CD-36	WOO27513470	WOO27513471	WOO27513472	
CL-36	WOO27513303	WOO27513455	WOO27513306	
CM-36	WOO27513303	WOO27513455	WOO27513306	
CN-36	WOO27513303	WOO27513455	WOO27513306	
CE-36	WOO27513355	WOO27513391	WOO27513334	
	Side Panel	Back Panel	Complete Set	
CP-36	WOO27513461	N/A	WOO27517574	
CT-36	WOO27513461	N/A	WOO27517574	
CA-36	WOO27513462	N/A	WOO27517576	
CBA-36	WOO27513462	N/A	WOO27517576	
CD-36	WOO27513473	N/A	WOO27517496	
CL-36	WOO27513462	N/A	WOO27517576	
CM-36	WOO27513462	N/A	WOO27517576	
CN-36	WOO27513487	WOO27513462	WOO27517585	
CE-36	WOO27513453	WOO27513311	WOO27517594	w/ top rail

Spa Model: Stone Cabinet : Gold

	Side Panels	Round Corner	Complete Set
CP-36	N/A	N/A	N/A
CT-36	N/A	N/A	N/A
CA-36	WOO27519200	WOO27519210	WOO27519208
CBA-36	WOO27519200	WOO27519210	WOO27519208
CD-36	WOO27519200	WOO27519210	WOO27519208
CL-36	WOO27519200	WOO27519210	WOO27519208
CM-36	WOO27519200	WOO27519210	WOO27519208
CN-36	N/A	N/A	N/A
CE-36	N/A	N/A	N/A

Spa Model: Stone Cabinet : Sable

	Side Panels	Round Corner	Complete Set
CP-36	N/A	N/A	N/A
CT-36	N/A	N/A	N/A
CA-36	WOO27519201	WOO27519211	WOO27519209
CBA-36	WOO27519201	WOO27519211	WOO27519209
CD-36	WOO27519201	WOO27519211	WOO27519209
CL-36	WOO27519201	WOO27519211	WOO27519209
CM-36	WOO27519201	WOO27519211	WOO27519209
CN-36	N/A	N/A	N/A
CE-36	N/A	N/A	N/A

Spa Model: Redwood:

	Door	Front Access	Round Corner	
CP-51	WOO27504330-R	WOO27516289-R	WOO27518760-R	
CT-51	WOO27504330-R	WOO27516289-R	WOO27518760-R	
CA-51	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CBA-51	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CL-49	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CM-47	WOO27504330-R	WOO27518840-R	WOO27518760-R	
CN-36	WOO27504330-R	WOO27518842-R	WOO27518761-R	
CE-36	WOO27504334-R	WOO27518821-R	WOO27518741-R	
	Side Panel	**Back Panel**	**Complete Set**	
CP-51	WOO27516381-R	N/A	WOO27515143-R	
CT-51	WOO27516381-R	N/A	WOO27515143-R	
CA-51	WOO27518940-R	N/A	WOO27515646-R	
CBA-51	WOO27518940-R	N/A	WOO27515646-R	
CL-49	WOO27518940-R	N/A	WOO27515646-R	
CM-47	WOO27518940-R	N/A	WOO27515646-R	
CN-36	WOO27501642-R WOO27501643-R	WOO27518940-R	WOO27500226-R	
CE-36	WOO27501622-R WOO27501630-R	WOO27518921-R	WOO27517590-R	W/ TOP RAIL

Spa Model: Redwood : Greywash

	Door	Front Access	Round Corner	
CP-51	WOO27504330-G	WOO27516289-G	WOO27518760-G	
CT-51	WOO27504330-G	WOO27516289-G	WOO27518760-G	
CA-51	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CBA-51	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CL-49	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CM-47	WOO27504330-G	WOO27518840-G	WOO27518760-G	
CN-36	WOO27504330-G	WOO27518842-G	WOO27518761-G	
CE-36	WOO27504334-G	WOO27518821-G	WOO27518741-G	
	Side Panel	**Back Panel**	**Complete Set**	
CP-51	WOO27516381-G	N/A	WOO27515143-G	
CT-51	WOO27516381-G	N/A	WOO27515143-G	
CA-51	WOO27518940-G	N/A	WOO27515646-G	
CBA-51	WOO27518940-G	N/A	WOO27515646-G	
CL-49	WOO27518940-G	N/A	WOO27515646-G	
CM-47	WOO27518940-G	N/A	WOO27515646-G	
CN-36	WOO27501642-G WOO27501643-G	WOO27518940-G	WOO27500226-G	
CE-36	WOO27501622-G WOO27501630-G	WOO27518921-G	WOO27517590-G	W/ TOP RAIL

Spa Model: Cal Select : Red

	Door	Front Access	Round Corner	
CP-51	WOO27513350	WOO27513375	WOO27513329	
CT-51	WOO27513350	WOO27513375	WOO27513329	
CA-51	WOO27513350	WOO27513377	WOO27513329	
CBA-51	WOO27513350	WOO27513377	WOO27513329	
CL-49	WOO27513350	WOO27513377	WOO27513329	
CM-47	WOO27513350	WOO27513377	WOO27513329	
CN-36	WOO27513350	WOO27513377	WOO27513329	
CE-36	WOO27513356	WOO27513392	WOO27513335	

	Side Panel	Back Panel	Complete Set	
CP-51	WOO27513442	N/A	WOO27517570	
CT-51	WOO27513442	N/A	WOO27517570	
CA-51	WOO27513452	N/A	WOO27517575	
CBA-51	WOO27513452	N/A	WOO27517575	
CL-49	WOO27513452	N/A	WOO27517575	
CM-47	WOO27513452	N/A	WOO27517575	
CN-36	WOO27513435	WOO27513452	WOO27517529	
CE-36	WOO27513312	WOO27513454	WOO27517544	W/ TOP RAIL

Spa Model: Cal Select : Grey

	Door	Front Access	Round Corner	
CP-51	WOO27513349	WOO27513374	WOO27513328	
CT-51	WOO27513349	WOO27513374	WOO27513328	
CA-51	WOO27513349	WOO27513376	WOO27513328	
CBA-51	WOO27513349	WOO27513376	WOO27513328	
CL-49	WOO27513349	WOO27513376	WOO27513328	
CM-47	WOO27513349	WOO27513376	WOO27513328	
CN-36	WOO27513349	WOO27513376	WOO27513328	
CE-36	WOO27513355	WOO27513391	WOO27513334	

	Side Panel	Back Panel	Complete Set	
CP-51	WOO27513441	N/A	WOO27517569	
CT-51	WOO27513441	N/A	WOO27517569	
CA-51	WOO27513451	N/A	WOO27517572	
CBA-51	WOO27513451	N/A	WOO27517572	
CL-49	WOO27513451	N/A	WOO27517572	
CM-47	WOO27513451	N/A	WOO27517572	
CN-36	WOO27513434	WOO27513451	WOO27517516	
CE-36	WOO27513311	WOO27513453	WOO27517506	w/ top rail

Spa Model: Cal Select : Smoke

	Door	Front Access	Round Corner	
CP-51	WOO27513303	WOO27513433	WOO27513306	
CT-51	WOO27513303	WOO27513433	WOO27513306	
CA-51	WOO27513303	WOO27513455	WOO27513306	
CBA-51	WOO27513303	WOO27513455	WOO27513306	
CL-49	WOO27513303	WOO27513455	WOO27513306	
CM-47	WOO27513303	WOO27513455	WOO27513306	
CN-36	WOO27513303	WOO27513455	WOO27513306	
CE-36	WOO27513355	WOO27513391	WOO27513334	

	Side Panel	Back Panel	Complete Set	
CP-51	WOO27513461	N/A	WOO27517574	
CT-51	WOO27513461	N/A	WOO27517574	
CA-51	WOO27513462	N/A	WOO27517576	
CBA-51	WOO27513462	N/A	WOO27517576	
CL-49	WOO27513462	N/A	WOO27517576	
CM-47	WOO27513462	N/A	WOO27517576	
CN-36	WOO27513487	WOO27513462	WOO27517585	
CE-36	WOO27513453	WOO27513311	WOO27517594	w/ top rail

Spa Model: Stone Cabinet: Gold

	Side Panel	Round Corner	Complete Set
CP-51	N/A	N/A	N/A
CT-51	N/A	N/A	N/A
CA-51	WOO27519200	WOO27519210	WOO27519208
CBA-51	WOO27519200	WOO27519210	WOO27519208
CL-49	WOO27519200	WOO27519210	WOO27519208
CM-47	WOO27519200	WOO27519210	WOO27519208
CN-51	N/A	N/A	N/A
CE-51	N/A	N/A	N/A

Spa Model: Stone Cabinet: Sable

	Side Panel	Round Corner	Complete Set
CP-51	N/A	N/A	N/A
CT-51	N/A	N/A	N/A
CA-51	WOO27519201	WOO27519211	WOO27519209
CBA-51	WOO27519201	WOO27519211	WOO27519209
CL-49	WOO27519201	WOO27519211	WOO27519209
CM-47	WOO27519201	WOO27519211	WOO27519209
CN-51	N/A	N/A	N/A
CE-51	N/A	N/A	N/A

Spa Model: Redwood

	Door	Front Access	Round Corner
SQ-92	WOO27504330-R	WOO27518840-R	WOO27518760-R
SQ-88	WOO27504330-R	WOO27518840-R	WOO27518760-R
SQ-43	WOO27504330-R	WOO27518842-R	WOO27518761-R
SQ-63	WOO27504330-R	WOO27518842-R	WOO27518761-R

	Side Panel	Back Panel	Complete Set
SQ-92	WOO27518940-R	N/A	WOO27515646-R
SQ-88	WOO27518940-R	N/A	WOO27515646-R
SQ-43	WOO27501642-R WOO27501643-R	WOO27518940-R	WOO2750026-R
SQ-63	WOO27501642-R WOO27501643-R	WOO27518940-R	WOO2750026-R

Spa Model: Redwood : Greywash

	Door	Front Access	Round Corner
SQ-92	WOO27504330-G	WOO27518840-G	WOO27518760-G
SQ-88	WOO27504330-G	WOO27518840-G	WOO27518760-G
SQ-43	WOO27504330-G	WOO27518842-G	WOO27518761-G
SQ-63	WOO27504330-G	WOO27518842-G	WOO27518761-G

	Side Panel	Back Panel	Complete Set
SQ-92	WOO27518940-G	N/A	WOO27515646-G
SQ-88	WOO27518940-G	N/A	WOO27515646-G
SQ-43	WOO27501642-G WOO27501643-G	WOO27518940-G	WOO2750026-G
SQ-63	WOO27501642-G WOO27501643-G	WOO27518940-G	WOO2750026-G

Spa Model: Cal Select : Red

	Door	Front Access	Round Corner
SQ-92	WOO27513350	WOO27513377	WOO27513329
SQ-88	WOO27513350	WOO27513377	WOO27513329
SQ-43	WOO27513350	WOO27513377	WOO27513329
SQ-63	WOO27513350	WOO27513377	WOO27513329

	Side Panel	Back Panel	Complete Set
SQ-92	WOO27513452	N/A	WOO27517575
SQ-88	WOO27513452	N/A	WOO27517575
SQ-43	WOO27513435	WOO27513452	WOO27517529
SQ-63	WOO27513435	WOO27513452	WOO27517529

Spa Model: Cal Select : Grey

	Door	Front Access	Round Corner
SQ-92	WOO27513349	WOO27513376	WOO27513328
SQ-88	WOO27513349	WOO27513376	WOO27513328
SQ-43	WOO27513349	WOO27513376	WOO27513328
SQ-63	WOO27513349	WOO27513376	WOO27513328

	Side Panel	Back Panel	Complete Set
SQ-92	WOO27513451	N/A	WOO27517572
SQ-88	WOO27513451	N/A	WOO27517572
SQ-43	WOO27513434	WOO27513451	WOO27517516
SQ-63	WOO27513434	WOO27513451	WOO27517516

Spa Model: Cal Select : Smoke

	Door	Front Access	Round Corner
SQ-92	WOO27513303	WOO27513455	WOO27513306
SQ-88	WOO27513303	WOO27513455	WOO27513306
SQ-43	WOO27513303	WOO27513455	WOO27513306
SQ-63	WOO27513303	WOO27513455	WOO27513306
	Side Panel	**Back Panel**	**Complete Set**
SQ-92	WOO27513462	N/A	WOO27517576
SQ-88	WOO27513462	N/A	WOO27517576
SQ-43	WOO27513487	WOO27513462	WOO27517585
SQ-63	WOO27513487	WOO27513462	WOO27517585

Spa Model: Stone Cabinet : Gold

	Side Panel	Round Corner	Complete Set
SQ-92	WOO27519200	WOO27519210	WOO27519208
SQ-88	WOO27519200	WOO27519210	WOO27519208
SQ-43	N/A	N/A	N/A
SQ-63	N/A	N/A	N/A

Spa Model: Stone Cabinet : Sable

	Side Panel	Round Corner	Complete Set
SQ-92	WOO27519201	WOO27519211	WOO27519209
SQ-88	WOO27519201	WOO27519211	WOO27519209
SQ-43	N/A	N/A	N/A
SQ-63	N/A	N/A	N/A

Spa Model: Stainless Steel

	Front Panel	Side/Rear Panel	Round Corner	Complete Set
GX-49	WOO27519300	WOO27519301	WOO27519310	WOO27519311

Spa Model: Cal Select : Red

	Door	Front Access	Round Corner
GX-49	WOO27513350	WOO27513377	WOO27513329
	Side Panel	**Back Panel**	**Complete Set**
GX-49	WOO27513452	N/A	WOO27517575

Spa Model: Cal Select : Grey

	Door	Front Access	Round Corner
GX-49	WOO27513349	WOO27513376	WOO27513328
	Side Panel	Back Panel	Complete Set
GX-49	WOO27513451	N/A	WOO27517572

Spa Model: Cal Select : Smoke

	Door	Front Access	Round Corner
GX-49	WOO27513303	WOO27513455	WOO27513306
	Side Panel	**Back Panel**	**Complete Set**
GX-49	WOO27513462	N/A	WOO27517576

Spa Model: Redwood

		Door	Front Access	Round Corner	
SKS24		N/A	WOO27500128-R	WOO27510635-R	
SKS25	SKS47	WOO27510634-R	WOO27510633-R	WOO27510635-R	
		Side Panel	**Back Panel**	**Port Panel**	**Complete Set**
SKS24		WOO27500136-R WOO27500137-R	WOO27510636-R	WOO27510632-R	WOO27500116-R
SKS25	SKS47	WOO27510630-R WOO27510631-R	WOO27510636-R	WOO27510632-R	WOO27517991-R

Spa Model: Redwood: Greywash

		Door	Front Access	Round Corner	
SKS24		N/A	WOO27500128-G	WOO27510635-G	
SKS25	SKS47	WOO27510634-G	WOO27510633-G	WOO27510635-G	
		Side Panel	Back Panel	Port Panel	Complete Set
SKS24		WOO27500136-G WOO27500137-G	WOO27510636-G	WOO27510632-G	WOO27500116-G
SKS47		WOO27510630-G WOO27510631-G	WOO27510636-G	WOO27510632-G	WOO27517991-G

Spa Model: Cal Select : Red

		Door	Front Access	Round Corner	
SKS24		N/A	WOO27500396	WOO27500367	
SKS25	SKS47	WOO27500361	WOO27500364	WOO27500367	
		Side Panel	**Back Panel**	**Port panel**	**Complete Set**
SKS24		WOO27500393 WOO27500390	WOO27500376	WOO27500381	WOO27517995
SKS25	SKS47	WOO27500370 WOO27500373	WOO27500376	WOO27500381	WOO27517992

Spa Model: Cal Select : Grey

		Door	Front Access	Round Corner	
	SKS24	N/A	WOO27500397	WOO27500368	
SKS25	SKS47	WOO27500362	WOO27500365	WOO27500368	
		Side Panel	**Back Panel**	**Port panel**	**Complete Set**
	SKS24	WOO27500394 WOO27500391	WOO27500377	WOO27500382	WOO27517996
SKS25	SKS47	WOO27500371 WOO27500374	WOO27500377	WOO27500382	WOO27517993

Spa Model: Cal Select : Smoke

		Door	Front Access	Round Corner	
	SKS24	N/A	WOO27500398	WOO27500369	
SKS25	SKS47	WOO27500363	WOO27500366	WOO27500369	
		Side Panel	**Back Panel**	**Port panel**	**Complete Set**
	SKS24	WOO27500395 WOO27500392	WOO27500378	WOO27500383	WOO27517997
SKS25	SKS47	WOO27500372 WOO27500375	WOO27500378	WOO27500383	WOO27517994

Cal Spas™ Chemicals

Bromine/Chlorine Starter Kit

#CHE07000290/#CHE07000295

When used as directed, this product is effective as a spa and hot tub sanitizer/disinfectant. Treats 250 gallons for up to three weeks.

Vinyl & Leather Cleaner

#CHE07000620

Specifically designed to protect spa covers and pillows from chemical and ultraviolet damage.

Fast Sheen

#CHE07000610

Unique water-based, chemically reactive silicone sealant and polish. Seals, shines, and protects spa surfaces.

Brominating Tablets

#CHE07000760/#CHE07000770

Sanitizer, disinfectant for spas and hot tubs.

Chlorinating Granules

#CHE07000865/#CHE07000880

When used as directed, this product is effective as a spa and hot tub water disinfecting agent.

Go Brom

#CHE07000830

Establishes a bromide bank in spas and hot tubs.

Filter Cartridge Cleaner

#CHE07000690

Breaks down organic and inorganic material. Removes calcium scale and mineral deposits.

Liquid Hardness Increaser

#CHE07000250

Increases water hardness to reduce corrosion. Helps reduce foaming.

Spa Brite

#CHE07000580/#CHE07000590

Clears up cloudy water in spas and hot tubs. Effective at all spa and hot tub temperatures.

Foam Gone

#CHE07000800/#CHE07000810

Breaks up existing foam in spa water. Effective at all spa and hot tub temperatures.

pH-Alkalinity Up

#CHE07000720/#CHE07000730

Helps maintain pH in spas and hot tubs.

pH-Alkalinity Down

#CHE07000750

Lowers pH in spas and hot tubs.

Enzyme Formula

#CHE07000600/#CHE07000605

Emulsifies and biodegrades bodily oils, suntan lotion, and other contaminants in spas and hot tubs.

Metal Protector

#CHE07000630/#CHE07000640

Controls water discoloration caused by minerals. Special Extra Strength formula for spas and hot tubs.

Stain & Scale Prevention

#CHE07000650/#CHE07000660

Prevents minerals from damaging spa components and affecting performance.

Oxidizer Shock

#CHE07000680/#CHE07000710

Destroys organic contaminants and odor-causing wastes.

2005 Warranty Information

See your Cal Spas™ dealer for a copy of the applicable warranty, details, and any questions you may have regarding the warranty coverage on your spa.

Warranty Limitations

The 2005 Limited Warranty is void if the spa has been subject to negligence, alteration, misuse, abuse, repairs by non-C.A.I. authorized representatives, incorrect electrical installation, acts of God and any other cases beyond the control of C.A.I. Examples of common acts invalidating this warranty include, but are not limited to:

- Use of spa in a non-residential application.
- Scratches caused by normal use.
- Operation of spas water temperature out of the normal operating range of 32˚F to 118˚F.
- Damage caused by incorrect water level (low, overflow, etc.).
- Damage caused by extreme weather conditions (hot, cold, etc.).
- Damage caused by dirt, sand and calcium.
- Damage caused by clogged filter cartridges. See filter cleaning recommendations in this Owner's Manual.
- Damage caused by continued operation of this spa with either a known or an unknown problem.
- Damage caused by tri-chlor, acids, chlorine tablets, and any other spa chemicals not authorized by C.A.I.
- Damage caused by improper water chemistry. (High levels of chlorine, bromine, calcium, pH and other excessive chemical levels.)
- Damage caused by direct sunlight. Spas should always be covered when not in use.
- Damage caused as a result of failure to follow operating instructions as defined within this Owner's Manual.
- Damage caused by incorrect electrical installation, electrical brownout, voltage spikes, or operation of spa out of voltage range by more than ±10%.
- Spas improperly installed in-ground or placed on non-approved surfaces.

The Limited Warranty applies only to spas normally used for personal, family or household purposes.

Warranty Exclusions

Replaceable service items such as filters, pump seals, light bulbs, ozonator cartridge, jet inserts, spa covers, and filter covers are specifically excluded for the limited warranty.

Spa covers and stereo systems are delivered with their own manufacturer's warranty. For more info, please see their warranties in the owner's information package that was delivered with your spa for more information.

Customer Service

For customer service, contact the authorized selling dealer immediately. If you need additional information and assistance, please contact the C.A.I. Customer Relations Department at 1462 East Ninth Street, Pomona, CA 91766, or call 909-623-8781.

U.S. and Canada Portable Spas

2005 WARRANTY

U.S. and Canada Portable Spas

This limited warranty is effective for portable spas manufactured after December 1, 2004.

Spa Shell / Structural Warranty

Portable Cal Spas™ models: C.A.I. warranties against the loss of water through the spa shell due to defects in materials and workmanship for a period of 10 years from the original date of purchase.

Interior Surface Warranty

Portable Cal Spas™ models: C.A.I. warranties with Altair Plus / Quarite Plus interior surfaces from cracks, blisters, peeling, discoloration and delamination for a period of ten years from the original date of purchase.

5 Year Interior Surface Warranty

Portable Cal Spas™ models: C.A.I. warranties the standard acrylic / standard quarite interior surfaces from cracks, blisters, peeling, discoloration and delamination for a period of five years from the original date of purchase.

Component Warranty

C.A. I. warranties the manufacturer installed XL Heat Exchanger™ and Cal Zone Quest 2000 Ozonator™ against malfunction due to defects in materials and workmanship. Lifetime warranty excludes replaceable ozone cartridge, which has a one year warranty from the original date of spa purchase.

Equipment Warranty

Portable Cal Spas™ models: C.A.I. warranties the spa's electrical and electronic components, specifically: the control system, pumps and air blowers against malfunction due to defects in materials and workmanship for a period of five years from the original date of purchase.

Plumbing Warranty

Portable Cal Spas™ models: C.A.I. warranties the sure-flo jet inserts and all factory installed plumbing and "Eliminator Plus™" wet end from loss of water due to defects in material and workmanship for a period of five years from the original date of purchase.

Cabinet Warranty

C.A.I. warranties Cal Select™ and Cal Stone panels against cracking and warping for a period of five years from the original date of purchase. C.A.I. warranties Cal Wood and redwood spa cabinets to be free from defects in material and workmanship for a period of 90 days from the original date of purchase. Seasonal check and surface cracks are not considered defects in material and workmanship, as they are normal characteristics of all wood. Surface stain is specifically excluded from this warranty.

LED Light Source

C.A.I. warranties the LED light source for a period of one year from the original date of purchase. LED replacement lights are specifically excluded from this warranty.

Please refer to the 2005 Owner's Manual for limitations and common acts invalidating this warranty, e.g., stereos, DVD players, televisions, power supplies, etc.

Extent of Warranty

This limited warranty is only valid on portable models delivered in the continental United States. However, it does not apply to special offers and events and extends through the selling dealer to the original purchaser at the original site of installation. This guarantee becomes valid at time of purchase and ends either by specified time-frame listed above, owner-transfer, relocation, or installation of any component other than the manufacturer. The Designer / Ultimate / ported and in-ground series spas are excluded from this warranty as no manufacturer warranty applies.

Warranty Performance

In the event of a malfunction or defect covered under the terms of this guarantee, the factory authorized selling dealer is responsible for performing all necessary repairs. To obtain service, contact the selling dealer. In the event the consumer is unable to obtain satisfactory customer service from the selling dealer, written notification must be given to the C.A.I. Customer Relations Department within 10 days of the reported failure. There will be no charge for parts or labor on a covered item. However, the service agent may assess a reasonable travel or mileage charge per service call. If C.A.I. determines that repair of a covered item is not feasible, C.A.I. reserves the right to replace the defective merchandise with merchandise equal in value to the original purchase price. In the event of any guarantee replacement, all removal, replacement, installation and shipping costs are the responsibility of the spa owner.

Legal Remedies

This limited warranty gives you specific legal rights and you may have other rights, which may vary from state-to-state.

Warranty Exclusions & Limitations

This guarantee is void if the spa has been subject to negligence, alteration, misuse, abuse, repairs by non-C.A.I. authorized personnel, incorrect electrical installation, installation of any component other than by the manufacturer, acts of God (including, but not limited to, acts of nature and surrounding environments), and any other cases beyond the control of C.A.I. Please refer to the owner's manuals for examples of exclusions and of common acts invalidating this guarantee. This warranty excludes models which coverage is specified in the "Designer/Ultimate Series Spas" warranty, i.e., Champion, Olympian, Ported, and Ingrounds.

Disclaimers

This limited warranty provided herein is made with the express understanding that the spa is not an essential device or medical device as defined under State and Federal Law. C.A.I. shall not be liable for loss of use of the spa or other incidental or consequential costs, expense or damages, which may include but are not limited to removal of permanent deck or other custom fixtures or the necessity for crane removal. Any implied guarantee shall have duration equal of the applicable guarantee stated above. Under no circumstances shall C.A.I. or any of its representatives be held liable for injury to any person or damage to any property, however arising.

Customer Service

For customer service, contact the authorized selling dealer immediately. If you need additional information or assistance, please contact the C.A.I. Customer Relations Department at 1462 E. Ninth St., Pomona CA 91766 or call (800) 225-7727.

Please make a record of the following.
It will be valuable if service is required.

Cal Spa Model:

Cal Spa Serial Number:
Date Purchased:

Date Installed:

Cal Spa Dealer's Phone Number:

Cal Spa Dealer's Address:

C.A.I. Customer Service Department
1462 East Ninth Street
Pomona, CA 91766

Toll Free: 1-800-CAL-SPAS
Fax: 1-909-629-3890

www.calspas.com

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